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Meteorological Data for Little America III

Tabular and Graphical Results of Observations Made at the West Base of the United States Antarctic Service Expedition of 1939–41

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PREFACE

METEOROLOGICAL DATA FOR LITTLE AMERICA III is the third contribution to the source material on Antarctic meteorology which the Weather Bureau has made available to meteorologists as a result of investigations conducted in the Antarctic for more than 20 years. In 1928, two Weather Bureau meteorologists accompanied the first Byrd Antarctic Expedition to Little America and conducted the most complete meteorological program thus far undertaken in the Antarctic. In 1934, two Weather Bureau meteorologists again accompanied the second Byrd expedition. These men, George Grimminger and W. C. Haines, compiled all the meteorological results of both expeditions into two volumes which were issued as Supplements 41 and 42 of the Monthly Weather Review.

In 1939, two meteorologists were again sent by the Weather Bureau to the Antarctic as members of the government's U. S. Antarctic Service. On this expedition two main bases were established, the West Base at Little America III, near the former bases of the two Byrd expeditions, and the East Base on Stonington Island in Marguerite Bay, south of Cape Horn. This Supplement presents the tabular and graphical results of meteorological observations taken at the West Base and its Seismic Station. These summaries were compiled during the year following the return of the expedition by the author, who had taken the observations. Much of the compilation was done at the University of California at Los Angeles under the guidance of Dr. J. Bjerknes and with the aid of several part-time assistants supplied by the Weather Bureau for clerical work.

The West Base of Little America III was located at 78°30′ S. lat., 163°50′ W. long., about 2 miles east of the shore of the Bay of Whales, an indentation in the Ross Shelf Ice, and about 4 miles south of the northern face of the shelf ice. It was 7 miles north-northeast of the camp occupied by the two Byrd expeditions, and some 12 miles north of the site of Framheim, occupied by Amundsen in 1912. When the base was established, the level snow surface of the shelf ice was about 100 feet above sea level, and all measurements reported in these tables are referred to that elevation.

The meteorological records were kept in Greenwich Mean Time, which was almost a half-day ahead of local sun time; i. e., a Greenwich day began at 10:55 local time of the previous day. The entire camp operated on Greenwich time, a policy adopted to facilitate comparison of the meteorologic, magnetic, cosmic-ray, and ionospheric records with each other and with those from the rest of the world.

A complete history of the meteorological observation program is contained in a manuscript report entitled "Little America Weather Observations, 1940–41," on file in the U. S. Weather Bureau with a copy at the National Archives. A condensed version of this report appeared as "Weather Observations during 1940–41 at Little America III, Antarctica," in the *Proceedings of the American Philosophical Society*, vol. 89, No. 1, April 1945. Two partial reports on the results of the program have also appeared: "Tropopause Disappearance during the Antarctic Winter," *Bulletin of the American Meteorological Society*, vol. 23, No. 5, May 1942; and "Oxygen Deficiency in Antarctic Air," *Monthly Weather Review*, vol. 70, No. 5, May 1942. In addition, a brief description of the glaciological program and its results, including measurements of snow accretion and sub-surface temperatures, has appeared: "The Physical Aspects of the Ross Shelf Ice," *Proceedings of the American Philosophical Society*, vol. 89, No. 1, April 1945.

In arranging the tables of Meteorological Data for Little America III, the general format of the "Meteorological Results of the Byrd Antarctic Expeditions 1928–30 and 1933–35" (Supplements 41 and 42) has been followed, except where experience in using those tables indicated that changes were desirable. A few clerical improvements could not be introduced because of the inflexible rules of the Government Printing Office concerning tabular matter. The tables were made as compact as possible without sacrifice of information or ease of use. They are divided into groups according to the elements measured, with explanatory notes accompanying each group. Explanatory statements as to the accuracy of instruments or the applicability of methods were designed to reflect the conditions which prevailed at the time the observations were made.

Because this expedition marked the first successful use of radiosondes during the Antarctic winter, with somewhat unexpected findings, results of the radiosonde program have been given first place in the tables. Tables of pilot balloon ascents and of surface observations are in general conventional, although a few innovations have been attempted. Comparison tables have been included to show the relation between pressures, temperatures, and winds during 1940 at Little America III and values reported for other years in that and other locations around the Ross Sea. Snow accretion tables represent the results of the first systematic attempt to measure this important variable in the Antarctic. Tables of subsurface temperatures have also been included because the temperature distribution within the ice, while not itself a meteorological element, both reflects and affects the weather conditions over the shelf ice. Both snow accretion measurements and subsurface temperature observations were made by Dr. F. A. Wade, senior scientist of the U. S. Antarctic Service, under whose direction the tables of results were prepared.

All weather observations were made by the author personally or by volunteer assistants. Among them, Mr. Harrison H. Richardson, Mr. Malcolm C. Douglass, and Dr. Ernest E. Lockhart were especially helpful. Due largely to their aid, and the continued support of Dr. Wade and Dr. Paul A. Siple, leader of West Base, the observations reported here are far more extensive and complete than could otherwise have been possible. The original outlining of the observational program and selecting of the equipment were accomplished largely by Dr. C. C. Clark, then assistant chief of the Weather Bureau, relying on the experience of Messrs. Haines and Grimminger.

Compilation of the data into tables could not have been achieved without the encouragement and support of Dr. F. W. Reichelderfer, Chief of the Bureau, Dr. Charles F. Sarle, formerly executive assistant for scientific services, and Dr. Harry Wexler, the present director of scientific services. At the University of California at Los Angeles, where the tables and diagrams were prepared, the guidance of Dr. J. Bjerknes and others of the meteorological staff, particularly Dr. Harald U. Sverdrup, was invaluable. Many of the tables and diagrams were prepared by Mr. Howard C. Koverman, Jr. Most important of all has been the help of the author's wife, Corinne F. Court, who arranged and typed all the tables and textual matter.

To these and all the others who helped to prepare the instruments, take the observations, and tabulate the results, thanks are due. Any omissions in the observations or errors in the tables are the responsibility of the author, who took the readings and supervised their compilation and publication.

ARNOLD COURT,
Meteorologist.

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PART I. RADIOSONDE OBSERVATIONS

EXPLANATORY NOTE

Data from the 189 radiosonde ascents at Little America III have been arranged into six tables and four figures. All temperatures are in Centigrade and, except for one instance, are below freezing, so that the minus sign has been omitted consistently. In accordance with standard Weather Bureau practice, all heights are given above mean sea level in units of 0.98 dynamic meters, generally equivalent to true linear meters. Since the value of gravity at Little America III is slightly higher (983 dynes) than the middle latitude standard, a slight error is introduced by this procedure. Actual heights as determined by soundings are 1.00306 times greater than the tabular values; i. e., to all altitudes shown there should be added 0.306 percent, or 3 meters per kilometer, which is far less than the limit of error of the computation.

Details of the conditions under which the ascents were made, the character of the calibrations, and the reliability of the data are given in Section D of "Little America Weather Observations, 1940–41," a manuscript report on file in the Weather Bureau library. All the ascents have been recomputed to correct for the effect of cold temperatures on the pressure element, as discussed in a preliminary report, "Tropopause Disappearance During the Antarctic Winter," published in the May 1942 issue of the Bulletin of the American Meteorological Society (vol. 23, pp. 220–238).

Table 1 presents, for each individual sounding, the height, pressure, and temperature at all the significant levels used in evaluating the ascent according to standard practice. Levels whose omission would leave the curves materially unchanged are indicated by asterisks. In the headings for each sounding are given the serial number of the ascent, Greenwich date and time of release, and free lift of balloon and also the net free lift with instruments attached, the difference indicating the weight of the instruments; Darex 350-gram balloons were used for all ascents, except No. 100 on August 28 and No. 172 on December 22, when 700-gram balloons were used. Also given are surface wind (direction from and speed in meters per second), cloud amount in tenths, type, and direction from which moving, and the computed angular elevation of the sun at the time of release, or the Greenwich time of local sunrise or sunset at the surface. (Cloud types are in conventional abbreviations; absence of any clouds whatever is indicated by 00, the weather code symbol for cloudless.) At the end of each sounding are given the time of the last level shown and the sky condition, surface wind, and solar altitude at that time, or the time of sunrise or sunset. (No sun data are given for the first 96 ascents, made during winter darkness.) On many ascents the uppermost levels actually obtained have been discarded as unreliable, due either to weakness of signal or lack of clear reference points. Thus the time of conclusion is not necessarily the time of burst, but may be used to indicate roughly the ascension rate or the extent to which conditions may have changed during the ascent. Lapse rates, potential temperatures, and other easily derived data are not given.

Table 2 presents the pressure and temperature values shown by the individual soundings at standard kilometer (and other) levels, arranged for easy day-to-day comparison. The soundings have been grouped into 14-day periods, into which they fit much more satisfactorily than into arbitrary calendar months, and means for each such period were computed using the accepted method of mean differences from layer to layer. One column is left for each day; a certain number of days were missed to space out the 200 available instruments over some 260 days. Days missed due to trouble with receiver, radiosonde, or balloon are indicated by T, those with winds too strong for successful release by W.

Table 3 presents means of these values for calendar months, even though April is represented by only 7 soundings in the final 6 days and January by 13 soundings in the first 15 days.

Table 4 presents the highest and lowest 14-day mean values of pressure and temperature observed at the various standard levels, and the resulting annual range based on the mean values. Also given are the absolute highest and lowest pressures and temperatures recorded at the various standard levels by the individual ascents, and the resulting over-all range.

Table 5 presents the absolute range at the various standard levels of pressure and temperature within each of the 19 periods of 14 days each.

Table 6 presents, in the same manner as Table 2, the altitude of certain standard pressure levels for the individual ascents, with means for each 14-day period also constructed by the method of mean differences.

No means whatever have been constructed for the entire year, and any attempt by others to compute such means is discouraged, due in part to the complete lack of data for almost three and a half months, and largely to the tremendous difference between conditions in summer and those in winter, when the extreme cold completely curtailed the observations to less than 19 km.

Figures 1a, 1b, 1c, and 1d show the temperature-height curves for each of the 190 soundings, with each successive ascent displaced by the equivalent of 10° C. on the grid. Temperatures are indicated clearly by the dotted "isotherms," which not only give a rough idea of temperature variations from ascent to ascent, but identify the value of the vertical lines appropriate to each curve. Where no ascent was made on any calendar day, the omission is shown by a dashed line representing the adiabatic lapse rate, and the subsequent ascents are correspondingly displaced. To preserve continuity, curves have been carried over from each individual graph to the next, such carry-overs being shown as dashed lines. Each plate section represents two of the same 14-day periods as those for which the means were derived. Missing data are indicated by gaps in the curves, with the letter M or the words "Data missing." Layers colder than those above and below them are denoted by *K*, warmer layers (except the customary surface inversion, below which the "isotherms" were not drawn for lack of space) by *W*.

Figure 2 shows quite strikingly the absolute annual range of temperature, and the ceiling placed upon wintertime ascents by the extreme cold of the stratosphere. It is made up of segments of the individual soundings which were the coldest observed at the various levels; i. e., the ascents listed in the second part of Table 5.

Figure 3 shows the variation in pressure at selected standard levels. The pressure scale (logarithmic) is continuous from the surface to 15 km., affording ready comparison of fluctuations at the different levels.

INDIVIDUAL RADIOSONDE OBSERVATIONS

SIGNIFICANT LEVELS

TABLE 1.—*Results of radiosonde observations, Little America III, by significant levels*

Altitude (m.)	Pressure (mb.)	Temperature (−° C.)
No. 1: 4/25/40; 0254; 2100–1100g.; F CI U, 4 AC NW; SSW 2.2		
35	978	30.7
200	956	31.1
440	925	19.0
750	885	13.1
1,600	792	14.9
2,140	737	14.9
3,220	639	22.0
3,660	602	23.6
4,740	515	31.1
*5,940	438	36.4
7,210	363	44.5
8,770	285	56.2
*9,730	244	61.8
10,300	223	64.2
11,580	182	62.0
12,880	147	57.2
14,600	112	55.6
17,580	70	58.2
0323: 4 AC NW; SSW 3.1		
No. 2: 4/26/40; 0240; 1600–600g.; 10 ST U; S 2.2		
35	964	26.7
130	952	26.7
240	938	28.2
300	917	26.0
640	887	16.7
890	858	15.0
1,290	814	14.6
1,500	792	16.9
1,830	757	18.0
3,050	642	25.2
*3,920	568	32.3
5,280	468	42.0
5,570	448	42.5
7,210	348	52.8
8,470	286	56.6
9,240	253	53.0
*9,890	230	52.9
*9,940	228	51.7
10,170	220	51.7
11,210	187	56.9
11,870	169	54.2
12,700	148	53.5
13,480	131	55.9
0332: 10 ST U; SSW 3.1		
No. 3: 4/26/40; 2101; 1600–600g.; 10 ST N; SE 7.2		
35	978	17.2
260	950	18.3
440	928	13.8
690	897	13.7
*1,120	847	16.4
1,900	763	22.0
1,960	757	21.8
2,280	724	23.8
2,570	696	24.3
3,630	600	33.1
4,450	533	38.2
4,670	517	38.2
5,440	461	42.0
*7,040	361	52.6
8,230	300	60.0
8,850	272	60.3
Data missing		
9,780	234	56.9
10,790	199	58.2
11,000	192	59 4
11,840	169	59.4
12,250	158	58.6
2157: 10 ST N; SSE 7.2		
No. 4: 4/27/40; 2040; 1600–600g.; 2 CC, 8 AS S; SSW 4.9		
35	982	26.2
290	948	26.6
430	930	12.4
610	907	10.0
*1,790	777	17.0
2,530	702	20.6
3,180	644	26.1
3,760	595	29.8
*4,090	568	31.0
4,600	528	33.5
5,130	488	37.7
*5,970	439	44.0
6,200	416	47.7
8,000	313	62.7
9,410	249	66.5
10,170	221	62.7
11,000	193	61.3
11,460	179	61.3
11,860	168	59.8
*15,880	87	64.5
*17,350	69	65.6
18,290	59	66.4
2148: 8 AS S; SW 7.6		
No. 5: 4/28/40; 2050; 1600–600g.; 10 SC E; Calm; Snow grains		
35	986	20.9
110	976	21.1
Data missing		
1,390	833	16.1
1,860	772	19.3
3,030	656	27.4
3,910	579	35.2
4,560	529	37.6
5,600	453	47.3
6,870	373	57.0
7,290	348	61.0
7,820	319	62.8
8,770	275	58.2
9,590	241	58.7
9,910	229	57.6
10,770	199	57.3
13,790	123	61.9
2146: 10 SC U; E 1.8		
No. 6: 4/29/40; 2111; 1600–600g.; 10 SC U; S 3.1; Fog		
35	980	17.9
120	968	19.3
270	949	18.0
500	920	18.3
880	875	21.0
1,380	818	19.0
2,780	677	25.9
3,560	607	32.4
3,840	582	33.9
4,170	556	37.0
5,830	434	49.7
*6,120	414	50.7
6,910	366	55.2
8,560	283	58.0
9,360	249	55.4
10,110	222	57.8
10,570	206	57.0
*10,950	194	57.7
*11,270	184	57.5
14,300	113	61.1
17,180	71	64.9
19,680	47	65.3
2221: 10 SC U; SSE 2.7		
No. 7: 4/30/40; 2052; 1600–600g.; Moderate fog; S 0.9		
35	965	26.2
240	938	28.2
430	913	26.0
550	900	20.7
730	877	19.8
1,280	816	20.0
2,430	695	26.9
3,800	573	37.0
4,000	557	37.2
4,290	534	40.1
4,870	490	43.7
5,930	419	51.1
*6,810	364	53.5
7,350	335	54.0
8,760	268	57.3
9,830	227	55.8
11,080	186	56.4
11,530	173	55.3
12,400	151	56.4
2143: Foggy; S 0.9		
No. 8: 5/1/40; 2050; 1700–700g.; 10 AS E; S 2.2		
35	964	43.1
90	957	44.1
520	899	22.7
710	877	19.8
1,320	806	20.2
2,030	731	23.3
*2,480	688	26.1
3,710	578	33.0
*4,110	546	36.0
4,750	498	40.4
5,250	463	39.1
5,880	421	41.6
*6,310	395	45.3
*6,900	361	49.0
8,000	304	58.2
9,090	255	62.8
9,620	235	63.2
10,730	197	56.9
11,730	167	57.0
12,540	147	58.2
15,360	94	60.7
2158: 10 AS E; S 1.3		
No. 9: 5/2/40; 2047; 1700–700g.; 10 SC NW; ESE 2.7		
35	970	34.1
150	953	36.6
340	926	33.2
590	894	34.4
900	858	27.1
1,440	796	24.0
3,130	628	30.3
4,740	499	41.1
5,090	474	40.2
*6,000	413	44.2
7,220	344	50.4
8,780	269	61.0
9,720	231	65.0
10,130	216	64.0
10,390	207	60.7
12,740	142	58.1
15,620	90	59.
2157: 10 SC NW; ESE 2.7		
No. 10: 5/3/40; 2103; 1700–700g. 3 AC W; S 2.2		
35	984	44.0
70	979	45.0
540	912	26.1
710	891	22.3
1,110	844	21.4
1,520	799	22.3
1,700	780	22.0
1,990	750	23.7
2,850	666	30.7
2,920	658	29.6
3,290	626	30.0
*3,820	579	32.7
4,500	526	34.6
5,220	473	38.8
*6,330	401	47.1
7,920	315	58.1
8,260	299	57.8
9,140	259	61.6
9,900	229	59.0
10,200	219	59.2
10,700	201	57.6
12,150	160	57.4
13,670	126	58.1
2201: 4 AC W; Calm		
No. 11: 5/4/40; 2122; 1700–700g.; 10 SC U; ESE 5.8		
#30	977	33.9
80	971	35.0
310	938	27.1
580	905	28.3
740	885	24.9
1,180	832	21.8
1,730	771	22.3
*2,400	703	26.0
2,690	676	26.8
3,290	623	27.1
3,780	582	29.2
4,530	522	34.8
4,850	500	35.1
*5,940	425	42.1
7,600	332	53.7
8,770	275	62.1
9,580	241	63.1
11,360	181	57.0
13,900	121	58.8

#Released from snow 50 m. W. of building.

2213: 10 SC U; ESE 7.6

Altitude (m.)	Pressure (mb.)	Temperature (−° C.)
No. 12: 5/6/40; 2226; 1800–800g.; 3 AC W; S 1.7		
35	977	50.0
210	953	32.7
500	915	31.2
*940	861	32.1
1,170	832	33.2
1,350	810	32.8
1,440	800	31.7
*2,050	734	34.0
2,100	728	34.6
3,480	598	39.0
*4,100	545	42.0
4,780	493	44.1
5,390	450	47.7
6,060	406	49.5
7,070	347	54.2
7,550	322	55.0
7,790	310	54.9
7,970	302	53.0
*8,370	284	52.3
8,720	268	50.8
No. 12—Continued		
9,090	253	50.2
*10,140	216	50.6
11,860	166	52.0
12,690	146	51.4
13,420	130	55.7
*13,700	124	56.6
14,860	103	59.0
15,310	96	58.1
16,950	74	61.8
19,360	50	65.0
2343: 10 AC NE; S 0.9		
No. 13: 5/7/40; 2045; 1700–700g.; 10 CS U; S 2.2		
35	972	47.2
200	948	34.0
340	931	32.8
490	910	32.8
*700	883	33.4
1,030	842	34.1
1,620	773	37.0
2,120	719	37.1
2,200	710	36.5
2,940	639	40.2
3,520	594	41.4
4,090	536	44.9
2058: 10 CS U; S 2.2		
No. 14: 5/8/40; 2016; 1500–500g.; 10 ST U; SE 4.4		
35	967	43.7
*150	949	40.2
310	928	37.4
570	894	37.8
670	882	36.6
980	844	37.7
1,220	815	35.8
1,390	795	31.0
1,560	776	30.3
*2,180	711	33.0
3,230	611	40.0
*3,900	555	42.2
4,400	514	44.8
2035: 10 ST U; ESE 6.7		
No. 15: 5/10/40; 2114; 1700–700g.; 1 AC U; S 2.2		
35	984	58.0
*40	983	54.2
*50	981	41.2
70	978	34.0
190	963	32.0
810	882	31.6
1,630	788	33.2
2,870	664	39.1
*3,660	594	44.1
4,550	511	49.4
*5,420	445	53.5
6,510	375	58.8
8,200	286	60.2
8,990	252	59.6
9,530	231	57.5
10,620	195	58.2
*14,250	108	66.2
15,360	90	68.1
2227: 2 AC U; S 1.3		

*Levels whose omission would leave curves materially unchanged.

TABLE 1.—*Results of radiosonde observations, Little America III, by significant levels*—Continued

Altitude (m.)	Pressure (mb.)	Temperature (−°C.)
No. 16: 5/12/40; 1927; 1700–700g.; 10 NS U; S 2.6		
35	990	37.1
70	985	45.1
240	961	37.3
610	909	36.3
710	894	36.9
880	874	33.3
1,210	828	30.6
1,580	785	30.7
2,910	648	34.0
*4,590	507	46.6
5,800	420	55.0
*6,200	394	56.5
7,020	344	60.8
8,040	294	61.5
8,480	275	61.0
8,960	254	62.9
9,230	243	61.0
9,880	219	60.0
*11,300	173	61.0
12,030	154	60.8
12,700	138	63.0
13,720	117	63.6
17,850	59	72.0
2032: 10 NS U; S 2.7		
No. 17: 5/13/40; 1958; 1600–600g.; 1 AC NE; NE 0.9		
35	1,003	37.3
80	997	33.1
310	963	33.4
470	944	33.0
730	908	36.3
980	878	24.5
1,380	831	23.1
1,650	801	23.3
2,660	696	29.9
3,140	652	30.7
4,100	568	37.0
*4,940	502	42.0
5,200	484	43.1
*5,500	463	45.5
5,940	432	50.0
7,130	358	58.0
*8,000	312	61.8
8,320	296	62.3
8,930	268	65.4
10,150	220	64.2
10,620	203	61.7
12,060	161	61.2
15,680	89	66.0
17,320	68	70.1
2103: 1 AC NE; N 2.2		
No. 18: 5/15/40; 2125; 1100–100g.; 00; SE 5.1		
35	1,007	49.6
*35#	1,007	49.8
*35#	1,007	44.7
*40	1,006	39.0
55	1,003	35.2
100	996	33.3
200	982	32.1
280	973	32.0
490	945	29.8
700	916	30.6
*820	901	29.4
*890	893	29.8
990	880	28.7
*1,040#	874	30.1
*1,260	860	29.7
1,420	827	31.6
1,500	818	30.1
2,480	713	33.0
#Horizontal variations, due to very slow ascension rate.		
2236: 00; SE 2.2		
No. 19: 5/18/40; 2240; 1500–500g.; 10 SC U; SE 8.9		
35	969	9.0
Data missing		
380	928	6.3
*800	878	8.0
1,180	838	9.1
2,540	698	17.3
3,550	609	25.4
*4,420	538	34.1
5,610	453	45.7
6,090	422	49.0
7,600	334	55.3
8,560	287	56.1
9,670	241	58.2
9,980	230	57.4
11,090	192	58.4
*11,620	176	60.3
*13,890	122	65.3
*16,510	79	71.6
18,120	60	74.4
2345: 10 ST U; SE 9.8		
No. 20: 5/20/40; 2135; 1350–350g.; 10 SC U; NE 4.9		
35	979	19.0
1,040	853	28.9
1,370	816	25.4
1,490	801	25.8
1,800	767	28.0
*2,230	722	29.3
2,560	690	30.7
2,880	659	31.0
4,550	520	37.8
5,590	447	45.7
*6,330	399	50.6
7,540	330	59.0
2206: 10 SC U; NE 3.1		
No. 21: 5/21/40; 2142; 1300–300g.; 4 AS SW; SSE 4.0		
35	973	29.7
90	966	30.2
200	952	25.0
460	920	25.3
1,030	846	30.3
1,460	799	30.3
*1,800	760	33.0
2,080	730	34.4
2,510	686	35.3
3,360	608	39.6
3,610	586	39.6
5,100	469	50.6
5,200	462	50.8
5,570	436	52.8
5,800	421	52.8
7,650	314	59.6
9,300	242	58.0
9,760	225	58.4
10,920	187	57.4
12,640	142	60.5
*13,530	123	63.3
14,260	109	64.6
Descent values		
*13,310	127	63.2
*11,680	166	58.6
*9,970	218	57.2
*7,880	303	59.0
*6,970	350	56.0
2253 (Burst): 5 AS SW; S 3.6 S		
No. 22: 5/22/40; 2139; 1300–300g.; 10 AS U; SW 1.8		
35	980	38.5
*60	977	37.0
110	969	28.8
200	959	25.7
320	942	26.1
450	926	24.4
690	895	25.1
810	881	24.4
2,120	733	33.4
2,520	692	33.0
2,830	662	34.3
3,810	574	41.6
4,030	556	41.9
No. 22—Continued		
5,100	474	50.6
6,110	404	55.6
6,940	355	60.8
7,370	331	61.9
8,020	296	61.7
8,300	284	63.1
8,840	261	63.1
*9,380	239	61.7
9,770	225	60.1
10,770	191	60.2
11,100	181	61.3
*11,870	161	60.9
12,110	154	60.9
2309: 10 AS U; SW 0.9		
No. 23: 5/23/40; 2142; 1300–300g.; 4 AS NW; SSW 1.3		
35	991	39.3
*70	988	38.7
120	980	34.0
260	962	31.6
410	941	25.6
590	918	25.1
910	876	27.1
1,500	807	32.7
1,890	764	31.3
2,910	661	35.1
3,220	632	35.4
4,710	508	44.6
6,120	409	54.2
*6,710	373	57.0
*6,930	361	57.7
7,360	338	60.0
8,400	285	64.4
8,880	263	63.2
9,140	252	64.5
9,580	235	63.0
11,190	180	63.7
11,900	160	66.8
12,870	137	66.0
13,160	131	67.0
13,810	117	67.4
2306: F AS W; SW 0.9		
No. 24: 5/24/40; 2203; 1300–300g.; 10 AC W; SW 3.2		
35	997	37.2
*60	994	37.5
90	990	34.1
270	965	35.0
460	938	34.6
700	905	36.6
*810	891	34.6
920	878	30.9
1,110	855	27.3
1,370	825	24.6
1,590	800	24.0
2,190	737	26.1
3,130	646	32.3
3,600	605	33.7
3,970	573	37.0
5,740	440	48.6
7,420	338	60.2
8,330	291	65.3
*10,290	212	66.3
11,280	179	66.3
12,770	140	69.1
14,550	104	71.0
2312: 10 AS U; SW 4.0		
No. 25: 5/25/40; 2144; 1400–400g.; 1 CS NW; E 7.6; Light drift		
35	995	37.1
*70	989	37.1
*230	968	27.4
300	959	26.7
540	927	27.0
1,280	837	24.3
1,700	789	24.0
1,990	759	26.1
2,270	729	27.0
3,010	657	31.1
4,940	498	43.3
*5,160	483	44.2
No. 25—Continued		
*5,700	445	46.6
5,920	430	47.1
7,960	312	65.0
8,800	270	71.1
9,830	227	74.2
10,580	200	73.1
11,020	185	70.4
12,400	147	70.7
2301: 4 AS NE; E 8.5; Light drift		
No. 26: 5/27/40; 2150; 1300–300g.; 10 ST U; S 5.4		
35	966	19.8
130	953	19.6
390	921	15.1
680	886	12.6
*1,020	845	14.5
*1,110	836	14.2
1,320	813	15.3
1,500	794	14.8
*2,290	716	20.6
3,390	615	28.3
4,690	512	39.4
4,860	499	39.3
*5,300	469	42.4
*6,840	369	54.6
*6,980	361	55.6
7,510	331	59.7
8,290	293	60.4
9,170	253	64.8
10,000	222	65.7
10,720	197	64.2
12,700	142	65.7
*15,000	97	69.7
15,730	86	71.2
2317: 10 ST U; S 4.5		
No. 27: 5/28/40; 2146; 1550–550g.; 8 ST U; ESE 7.6; Released from snow surface NW of bldgs.		
35	980	23.0
200	959	18.1
510	919	14.9
1,140	845	16.8
1,730	781	19.9
*2,170	738	23.0
*3,600	604	34.5
*3,860	582	36.0
*4,190	554	39.1
4,570	524	41.5
*5,280	472	47.8
5,600	450	50.7
*6,240	408	54.2
*7,970	310	65.1
8,260	295	67.0
9,040	259	68.1
9,300	249	65.6
9,880	226	65.2
10,200	215	63.8
10,710	197	64.8
11,500	173	63.6
*13,700	121	67.5
*14,300	109	68.1
15,130	95	70.0
16,220	79	70.8
2254: 7 ST U; ESE 8.5		
No. 28: 5/29/40; 2149; 1300–300g.; 00; S 6.7		
35	990	39.8
100	982	40.1
260	962	30.0
*350	948	27.8
500	928	26.2
670	908	22.6
850	885	22.7
1,000	867	23.6
1,110	853	23.1
1,370	823	24.2
1,440	814	23.8
*1,770	779	25.9
1,950	760	27.0
2,310	722	27.1
2,360	718	26.1
2,450	710	27.2
No. 28—Continued		
*2,940	663	30.1
3,210	637	31.2
*3,470	614	33.2
4,480	531	41.7
*4,690	515	43.0
5,150	480	45.0
*5,790	436	49.6
*6,000	421	51.6
6,480	391	54.6
*6,700	378	55.2
*7,480	333	60.3
8,000	306	62.5
8,560	281	66.8
8,820	268	67.3
9,280	249	66.0
9,660	234	67.4
9,870	223	65.3
10,500	203	67.0
11,030	187	63.7
11,280	180	65.5
11,540	172	64.7
*12,360	150	66.0
13,670	121	67.8
14,120	112	67.4
2308: 00; SSW 8.0		
No. 29: 5/31/40; 2142; 1300–300g.; 00; S 0.9		
35	973	47.9
Data missing		
400	921	36.1
470	914	36.1
620	892	37.3
980	847	38.0
1,190	823	39.3
1,720	760	41.0
1,940	737	38.6
2,170	713	39.8
2,500	678	38.0
3,070	625	39.5
*3,300	603	40.7
3,700	569	42.5
2207: 00; SSW 1.3		
No. 30: 6/1/40; 2144; 1350–350g.; F AC to NW; Calm		
35	990	46.3
*90	982	43.3
240	961	36.2
320	949	35.4
720	897	35.5
810	886	32.9
1,190	839	33.9
1,600	792	31.7
1,910	756	34.0
2,500	695	34.1
*3,460	607	37.5
4,150	549	39.5
5,170	472	45.9
5,820	427	48.7
6,050	413	50.9
Data missing		
7,400	334	56.6
7,900	308	58.6
9,060	256	60.4
9,600	236	58.8
10,390	208	60.6
10,670	199	59.2
11,870	163	62.3
12,800	140	63.0
14,140	113	65.6
2255: 00; N 2.2		
No. 31: 6/3/40; 2146; 1300–300g.; 00; SSW 3.6		
35	985	48.1
*50	983	47.6
100	977	42.8
210	960	41.2
530	915	41.6
730	888	40.7
810	878	39.7
920	864	34.9
1,070	847	33.8
1,260	824	34.0

*Levels whose omission would leave curves materially unchanged.

792798—49——2

TABLE 1.—*Results of radiosonde observations, Little America III, by significant levels*—Continued

Altitude (m.)	Pressure (mb.)	Temperature (−°C.)
No. 31—Continued		
2,100	730	37.0
*2,580	681	39.3
*2,990	642	40.9
4,580	506	48.6
5,400	446	50.8
5,800	420	53.2
*6,410	380	54.9
*7,240	333	56.6
7,510	318	59.1
8,130	287	62.3
8,700	264	61.8
9,640	227	62.8
9,990	215	62.2
11,800	159	66.7
12,890	133	68.1
2300: 00; SSW 0.9		
No. 32: 6/5/40; 2143; Lift missing; 00; SSW 4.0		
35	988	46.6
Data missing		
300	949	36.6
680	900	35.1
790	886	35.9
1,160	866	35.3
1,200	834	33.1
1,600	788	32.2
2,020	743	33.7
2,480	698	34.0
3,900	569	40.3
4,380	529	44.1
*5,420	452	50.0
*6,630	374	55.2
7,710	315	59.1
7,920	304	58.8
*8,700	269	61.5
9,640	231	63.0
10,540	200	61.5
12,590	144	63.8
16,920	70	70.7
2249: 00; S 1.9		
No. 33: 6/6/40; 2207; 1350-350g.; 00; SSW 3.1		
35	994	49.6
230	968	34.1
*380	948	31.7
470	935	30.3
710	904	29.2
1,030	863	30.8
1,180	845	29.7
1,820	772	29.2
2,000	753	30.1
2,180	736	28.8
*2,460	705	29.0
2,580	694	29.1
*3,310	626	35.0
*3,930	572	39.9
*4,310	541	42.8
4,830	500	46.0
*5,330	463	48.4
6,430	392	55.9
*6,800	369	57.0
*8,010	303	62.0
8,730	271	64.3
9,350	245	63.8
10,200	213	65.2
10,750	195	64.9
11,240	179	65.6
11,800	164	64.4
12,200	153	65.6
12,480	146	64.7
13,160	131	66.1
2355: 00; SW 1.3		
No. 34: 6/12/40; 2247; 1300-300g.; 00; W 4.0; Light ice crystal shower		
35	979	28.9
460	923	17.8
*670	898	17.1
*990	862	15.8
1,320	825	14.4
1,520	804	14.4
2,460	708	21.9
3,150	644	28.8
*3,780	590	32.1
*4,280	549	33.7
No. 34—Continued		
*4,620	523	37.0
*5,700	446	44.8
6,650	385	52.8
*7,080	361	55.9
7,470	339	58.7
7,930	316	58.8
*8,510	287	61.2
9,000	264	63.6
11,530	176	67.0
11,860	166	66.6
12,740	143	68.2
0006: 00; W 5.8		
No. 35: 6/15/40; 2154; 1350-350g.; 4 AC W; S 6.7		
35	981	29.9
130	969	21.0
360	940	15.0
730	895	13.8
900	874	14.0
1,220	838	17.1
1,650	790	17.2
*2,320	723	21.0
2,940	664	25.3
3,460	619	27.1
*3,850	586	29.8
4,980	499	36.9
6,130	420	45.7
6,730	384	51.2
2233: 5 AC E?; S 4.9		
No. 36: 6/16/40; 0218; 1350-550g.; 8 AC NE; S 4.5		
35	982	32.0
130	968	23.3
400	934	17.8
510	919	16.2
740	892	15.6
1,370	822	18.6
1,780	776	20.0
2,050	749	21.8
2,230	732	21.2
2,730	683	22.0
*3,180	642	25.2
*3,940	577	31.6
4,240	553	33.0
4,470	536	33.0
*4,900	504	36.7
5,390	469	40.4
*5,890	436	44.5
6,940	371	52.6
*7,950	316	60.6
*9,180	258	70.1
9,740	235	74.4
Data missing		
10,740	197	72.3
11,950	161	72.3
Data missing		
13,520	123	72.3
13,990	114	72.3
0311: 9 AC NE; S 6.3		
No. 37: 6/17/40; 0158; 1350-350g.; 10 CS U, 4 AC S; SSW 6.3		
35	984	35.0
250	956	22.6
560	916	17.0
830	884	17.2
980	867	16.5
1,500	808	17.8
1,950	761	21.2
2,560	700	23.2
2,980	660	27.1
3,190	641	26.0
4,410	540	35.0
*5,220	481	40.1
5,620	453	42.3
*5,930	433	44.5
6,390	403	47.8
No. 37—Continued		
7,910	318	60.7
*8,450	292	63.8
9,090	262	68.0
10,200	219	70.2
Data missing		
11,070	189	68.6
13,430	127	67.8
15,620	88	70.7
0322: 10 CS U; 5 AC S; SSW 7.1		
No. 38: 6/18/40; 0258; 1300-300g.; F AC U; S 2.8		
35	989	45.0
90	982	49.0
*120	978	47.1
240	962	29.9
*330	950	26.8
470	932	23.0
620	913	21.8
1,060	859	21.8
1,580	800	24.3
1,860	770	24.0
*2,750	680	29.7
2,880	668	30.3
3,520	610	35.0
0322: F AC U; S 2.2		
No. 39: 6/19/40; 0204; 1350-350g.; 8 CS W; SSW; 2.2		
35	990	49.5
90	982	48.8
*160	971	42.7
270	957	38.0
*310	951	31.4
400	940	26.2
470	930	24.2
630	909	22.3
1,200	842	22.0
1,590	797	23.4
1,690	787	22.9
1,920	763	24.6
2,550	700	25.4
2,730	682	27.1
*3,360	625	30.0
3,670	598	32.1
4,120	562	33.5
5,390	467	42.6
*7,330	346	59.7
8,500	285	69.4
8,790	272	69.7
0251: 9 CS U; SSW 1.8		
No. 40: 6/20/40; 0348; 1400-400g.; 2 AC W; SW 4.0		
35	988	40.0
*60	983	39.2
200	965	30.2
420	935	29.6
940	870	28.6
*1,000	864	27.8
1,240	835	25.4
1,450	811	25.3
2,300	719	32.7
2,460	704	31.7
2,750	676	31.7
3,480	609	35.4
3,790	582	35.4
4,310	540	38.8
*5,700	439	49.9
6,860	366	58.4
7,420	337	61.2
7,800	314	62.0
8,370	286	65.7
9,780	227	69.3
Data missing		
12,220	150	75.6
13,940	111	79.7
0446: 3 AC W; SW 4.5		
No. 41: 6/21/40; 0216; 1400-400g.; 10 ST U; ESE 5.4		
35	978	35.7
140	963	25.0
*220	954	23.4
330	939	22.2
*560	911	22.6
870	873	23.7
1,120	844	23.3
1,220	831	23.7
1,750	773	21.6
*1,960	752	22.5
*2,580	690	25.2
2,970	654	27.0
3,860	578	28.6
*4,120	557	30.0
4,990	494	33.0
*5,570	454	38.1
7,170	357	50.7
Data missing		
9,850	231	73.1
10,700	200	75.8
11,400	177	74.5
12,860	137	75.1
13,850	116	78.7
0326: 10 ST U; ESE 8.5		
No. 42: 6/24/40; 0152; 1500-500g.; 10 ST U; E 6.7		
35	966	25.1
75	960	26.3
200	943	23.3
310	930	23.5
640	889	26.8
850	864	24.0
1,020	844	25.4
1,240	819	25.1
1,900	746	30.0
2,000	737	28.6
2,690	668	31.2
*3,120	628	34.8
3,550	591	39.0
4,780	492	47.7
6,000	408	54.1
*7,830	305	65.4
8,250	284	68.2
8,800	259	68.5
9,230	241	67.0
Data missing		
10,610	188	68.9
11,540	163	70.3
13,650	115	74.7
15,770	79	82.1
0304: 10 ST U; E 7.6		
No. 43: 6/24/40; 2231; 1650-400g.; 10 ST U; E 6.3		
35	971	22.0
830	871	29.0
*1,770	762	35.6
2,400	694	38.7
2,750	660	38.7
3,240	615	41.1
3,550	587	40.8
4,180	536	43.0
*4,940	478	48.5
5,330	449	52.2
5,920	411	55.6
6,950	348	59.0
7,180	336	58.2
7,970	295	61.4
8,500	272	62.0
8,770	260	64.0
10,960	181	69.0
12,600	137	73.0
14,360	101	78.5
2348: 10 ST U; E 5.8		
No. 44: 6/27/40; 0147; 1550-550g.; 4 AC E; E 6.7		
35	980	28.2
190	959	23.2
420	929	23.2
550	913	24.6
680	898	24.1
810	881	24.8
940	866	23.7
1,760	774	27.1
1,870	761	27.1
*2,500	697	30.0
No. 44—Continued		
2,730	675	31.6
*2,960	653	32.7
3,430	611	35.4
*4,930	489	46.5
5,080	479	47.0
5,580	444	50.5
6,170	405	53.3
6,710	372	56.8
7,210	343	59.0
*7,930	305	64.0
8,390	284	66.5
*9,000	256	67.2
*9,430	239	68.2
9,820	224	68.6
10,550	198	70.4
12,620	139	73.1
14,260	105	78.2
0236: 6 AC U; E 7.2		
No. 45: 6/28/40; 1222; 1600-600g.; 10 AS U; SW 4.5		
35	978	22.5
170	962	28.2
300	945	24.9
420	929	24.0
800	882	25.0
1,110	844	25.0
1,550	794	27.8
1,800	766	28.1
1,930	752	29.0
2,260	719	29.7
2,400	705	30.4
2,850	662	29.7
3,080	641	31.1
3,160	634	31.0
4,240	542	39.0
*4,890	492	45.0
5,410	455	50.0
1240: 10 AS U; SW 3.6		
No. 46: 6/29/40; 0207; 1600-600g.; 2 AC W; WNW 4.9		
35	981	32.2
130	969	32.7
190	960	30.7
300	946	30.3
440	928	24.0
550	914	21.9
*1,080	850	23.2
1,430	810	24.3
1,680	782	23.0
2,570	692	29.2
2,920	659	29.3
3,180	635	31.5
3,340	621	31.8
3,830	579	35.7
4,510	525	38.5
5,630	444	47.8
*6,470	390	52.4
6,900	364	54.1
7,470	333	58.0
8,410	286	62.9
9,370	237	65.8
9,930	224	65.4
12,580	144	70.5
13,280	128	70.9
0253: 2 AC W; W 4.5		
No. 47: 6/30/40; 0354; 1600-600g.; 00; SW 4.5; Aurora NE; Wind abated since 0230		
35	968	28.8
170	949	23.5
480	910	24.2
720	881	23.5
1,100	836	24.0
1,480	794	23.8
1,940	745	26.7
2,080	731	25.6
2,230	717	26.1
2,490	691	25.6
3,590	591	34.0
*4,300	534	40.4
*5,160	470	48.2

*Levels whose omission would leave curves materially unchanged.

TABLE 1.—*Results of radiosonde observations, Little America III, by significant levels*—Continued

Altitude (m.)	Pressure (mb.)	Temperature (−°C.)
No. 47—Continued		
5,530	444	51.1
6,480	383	55.7
6,750	367	55.4
*8,300	287	60.7
9,150	250	63.5
*9,990	219	64.7
11,000	185	66.1
12,360	147	70.4
14,240	107	72.8
0441: 4 AS U; S 2.2		
No. 48: 7/1/40; 0153; 1450–450g.; 4 AC E; SE 4.0;		
35	979	35.6
280	959	28.5
610	904	23.7
1,080	846	24.7
*1,450	805	24.4
1,710	777	24.0
1,790	768	24.8
2,270	719	26.8
2,480	698	25.9
4,300	541	35.3
4,450	529	35.6
*4,960	492	39.4
5,330	465	42.2
5,810	433	46.3
*6,200	408	49.1
6,600	383	52.4
8,560	280	68.1
9,560	236	74.9
11,700	163	75.1
13,630	117	77.6
0248: 4 AC E; SE 3.1		
No. 49: 7/2/40; 0222; 1450–450g.; 10 ST U; WSW 2.7;		
35	978	31.0
60	974	32.0
90	970	29.4
360	935	28.6
460	923	25.0
720	890	21.0
*1,480	802	21.2
1,740	775	21.1
2,700	679	26.0
3,320	622	31.0
*4,330	539	36.8
4,970	492	40.1
5,540	451	44.0
5,940	427	48.0
7,450	336	60.7
8,180	299	63.0
8,860	267	67.9
11,580	169	70.7
13,880	114	77.5
0320: 10 ST U; SW 2.2		
No. 50: 7/4/40; 0243; 1450–450g.; 10 AS U; E 3.6		
35	977	13.9
100	968	15.7
*550	912	18.3
810	881	19.1
1,110	846	14.0
1,350	820	14.0
1,620	792	16.6
2,150	737	17.3
2,860	670	22.0
*3,430	619	27.8
4,880	504	41.1
5,590	453	46.1
*6,170	415	50.8
7,110	357	59.0
8,190	300	68.2
9,350	246	74.6
10,200	213	75.0
0327: 10 AS U; E 3.1		
No. 51: 7/5/40; 0221; 1450–450g.; 10 SC U; N 3.6		
35	976	17.9
150	960	20.3
340	936	21.7
490	918	21.4
680	895	22.9
1,700	778	23.2
2,000	747	25.0
2,400	706	24.5
3,050	645	27.8
*4,150	553	35.0
4,470	528	37.0
*4,830	501	39.8
5,500	454	45.0
*6,700	379	53.9
7,450	336	59.4
8,440	286	66.9
9,350	245	71.1
Data missing		
10,030	219	69.4
11,140	181	73.1
13,930	112	77.7
0325: 10 SC U; N 3.1		
No. 52: 7/6/40; 0130; 1450–450g.; 10 SC U; E 3.6		
35	976	24.5
330	937	23.4
570	907	25.1
690	893	22.8
840	874	21.6
*1,240	828	22.2
1,540	795	22.2
1,910	756	24.2
*2,020	744	24.0
2,280	717	24.5
2,690	677	27.3
3,180	632	29.2
3,680	589	34.1
4,220	546	37.3
*4,970	490	43.0
5,320	465	45.2
6,400	394	53.7
*7,470	333	60.5
8,430	284	66.8
10,390	205	74.1
11,000	185	73.8
11,290	175	75.2
12,190	150	74.7
14,070	108	78.6
0238: 10 SC U; E 4.0		
No. 53: 7/7/40; 0204; 1500–500g.; 4 AC NW; ESE 4.0		
35	974	30.0
310	938	29.3
370	930	26.0
560	906	24.9
670	893	21.0
900	864	19.8
1,030	849	19.8
1,290	821	21.0
1,510	795	21.3
2,260	719	26.0
3,130	635	30.1
3,500	603	33.5
3,880	571	34.2
*4,250	541	37.2
5,610	442	48.3
*6,870	366	57.8
7,120	351	59.0
*8,160	297	67.7
8,900	261	73.3
10,000	216	77.0
10,280	206	76.5
10,620	194	74.4
11,260	174	76.5
13,220	123	80.5
13,660	114	80.5
0308: 5 AC NW; ESE 4.5		
No. 54: 7/8/40; 0157; 1500–500g.; 00; SW 5.4		
35	977	38.0
210	952	24.9
460	920	21.7
630	898	22.4
750	885	22.2
*1,170	836	23.0
1,710	776	23.6
2,270	719	29.1
2,730	674	29.1
3,840	576	37.3
4,670	510	41.2
5,100	478	42.1
6,030	416	47.2
6,580	381	52.6
7,680	321	59.1
*8,920	263	68.3
9,700	231	74.0
10,830	189	79.7
11,450	169	79.0
12,480	141	82.8
0253: 00; SW 5.4		
No. 55: 7/9/40; 2142; 1500–500g.; 8 AS W; SW 6.7		
35	986	40.8
140	969	43.1
*280	951	39.2
630	904	29.9
*800	883	27.5
960	865	26.0
1,180	838	26.4
1,460	806	24.3
1,820	768	23.9
2,320	716	25.0
*2,610	689	26.3
3,390	617	29.0
5,260	472	43.0
7,360	340	58.0
9,210	252	70.4
9,520	239	71.9
2257: 6 AS U; SW 6.3		
No. 56: 7/10/40; 0930; 1600–600g.; 00; SW 5.4		
35	999	45.2
60	994	46.1
180	977	40.1
310	959	38.2
540	928	31.8
780	897	27.9
*970	874	27.2
1,130	854	26.1
1,270	839	23.2
*1,500	811	22.5
1,940	765	20.3
2,680	691	22.6
3,130	650	25.6
3,410	625	26.3
*3,930	582	29.8
4,800	514	35.9
5,900	438	44.6
*6,880	377	53.0
7,240	356	55.3
8,550	288	66.7
9,100	263	70.4
9,510	245	71.8
10,150	221	71.2
*11,500	175	73.7
14,230	109	77.7
1036: 1 AC SW; SW 4.5		
No. 57: 7/11/40; 0134; 1600–600g.; 10 SC U; ESE 4.0		
35	1,003	36.6
60	999	38.0
170	984	33.0
710	913	28.7
*820	898	28.7
940	883	28.2
*1,050	870	26.2
1,240	847	24.2
1,500	817	24.6
1,820	782	21.6
2,200	743	21.0
2,950	670	24.7
3,790	597	26.0
4,850	515	32.2
5,640	460	38.0
*6,430	409	45.1
8,440	299	61.7
9,100	268	68.0
*9,710	242	72.4
11,450	178	86.0
12,380	151	79.3
14,120	111	79.3
0233: 10 SC U; E 5.8		
No. 58: 7/12/40; 0158; 1600–600g.; 10 ST SW; SW 2.7		
35	984	32.3
80	978	34.9
360	939	33.7
470	924	31.2
670	899	32.0
950	864	30.4
1,260	826	31.5
1,770	770	27.3
*1,980	747	28.8
*2,470	698	32.8
2,930	652	36.2
3,120	636	33.1
3,360	615	32.1
*4,620	513	40.8
5,740	433	49.2
6,850	365	57.0
8,310	288	64.6
9,050	255	65.3
10,910	187	68.7
12,000	156	69.2
16,120	77	79.6
0302: 10 ST SW; SW 4.0		
No. 59: 7/13/40; 0236; 1400–400g.; 00; E 3.6		
35	986	45.4
80	979	38.8
*130	973	36.9
180	965	35.6
370	938	35.7
*610	907	34.0
1,120	843	32.1
1,360	811	33.0
1,630	784	32.0
1,810	765	32.6
1,980	746	31.0
2,360	708	30.6
*2,830	662	33.0
3,220	627	34.0
4,180	546	41.6
5,190	469	48.1
5,720	433	53.0
6,350	391	56.8
6,870	360	59.9
8,510	275	67.9
9,500	233	70.7
11,580	163	73.8
12,700	135	76.8
0344: 00; E 4.0		
No. 60: 7/14/40; 0227; 1350-350 g.; 10 SC U; E 4.0		
35	990	40.0
50	987	42.0
90	981	38.0
170	969	37.0
640	905	36.1
830	882	37.2
990	863	34.8
1,220	835	33.0
1,410	812	32.8
1,940	753	30.0
2,190	727	30.0
2,690	678	31.1
2,950	653	32.8
3,180	632	32.8
3,810	578	36.4
4,630	514	39.7
5,110	478	43.6
5,360	460	44.2
6,350	395	53.0
7,000	356	56.9
7,320	338	58.0
7,750	316	62.0
8,570	277	67.3
9,350	242	71.9
9,920	220	74.5
11,990	154	78.8
0321: 10 SC U; NE 1.8		
No. 61: 7/15/40; 0227; 1550–550g.; 10 AS U; E 5.8		
35	979	43.0
Data missing		
180	957	37.9
*240	948	37.5
370	931	36.0
630	897	35.2
870	868	29.4
1,070	844	27.0
1,380	808	25.4
1,820	761	26.3
2,090	733	24.1
2,440	696	25.2
3,360	614	30.4
4,580	516	39.9
5,290	464	46.8
5,560	446	48.6
6,030	415	49.2
6,510	384	53.1
8,010	302	67.0
9,300	243	72.0
10,480	199	74.2
11,530	166	75.0
12,950	130	79.3
0301: 10 AS U; E 7.6		
No. 62: 7/16/40; 0307; 1600–600g.; 10 AS U; S 4.5		
35	970	52.5
*110	959	48.0
150	953	42.0
*260	939	38.0
350	925	35.0
710	878	34.5
1,130	825	35.9
1,320	803	34.8
1,910	740	34.8
2,640	665	38.7
3,320	603	40.7
*4,060	539	45.3
5,170	457	52.1
*5,920	406	56.4
*6,580	365	60.2
7,930	291	67.6
8,810	252	70.3
10,470	190	74.6
10,800	179	73.1
12,650	131	76.5
0348: 10 AS U; SW 7.6		
No. 63: 7/17/40; 0912; 1550–550g.; 10 AS U; S 2.2		
35	963	46.9
330	925	35.3
570	892	31.8
850	856	33.0
1,070	831	32.0
1,230	810	33.0
2,010	726	30.6
2,920	638	35.0
3,920	552	41.5
5,140	459	51.6
*5,900	408	56.3
7,630	308	66.9
*7,980	291	68.2
8,450	269	70.9
*9,010	243	71.7
9,660	219	72.4
12,820	127	78.9
1006: 9 AS U; S 3.6		

*Levels whose omission would leave curves materially unchanged.

TABLE 1.—*Results of radiosonde observations, Little America III, by significant levels*—Continued

Altitude (m.)	Pressure (mb.)	Temperature (−°C.)
No. 64: 7/18/40; 0320; 1450–450g.; 10 AS U; S 2.2		
35	964	51.5
100	955	51.1
280	930	38.4
440	907	33.0
*600	880	30.9
770	868	30.2
1,980	730	32.4
2,320	695	32.4
2,730	656	34.1
3,630	576	40.0
5,200	455	52.1
*5,980	403	56.7
6,770	353	61.2
7,480	316	67.1
7,910	293	68.0
8,880	250	72.3
11,690	154	76.4
0413: 10 AS U; S 2.2		
No. 65: 7/19/40; 0256; 1450–450g.; 10 CS U; S 2.2		
35	965	50.4
130	953	38.3
250	936	31.4
360	922	31.0
770	871	31.6
1,950	733	39.5
*2,810	647	40.7
3,490	585	42.0
*4,750	484	49.6
5,670	420	55.2
*6,550	364	62.3
7,470	313	68.3
8,350	269	69.7
9,530	222	73.6
11,670	153	75.6
12,700	128	78.2
0346: 10 CS U; S 3.6		
No. 66: 7/20/40; 0217; 1450–450g.; 00; S 1.9		
35	968	36.5
90	960	39.3
150	951	30.9
240	941	30.4
580	896	31.8
1,230	818	32.8
2,190	712	38.5
2,810	651	37.6
4,400	513	48.1
5,280	449	53.1
*6,220	387	59.3
7,330	323	67.5
7,840	298	69.6
9,260	233	71.9
10,950	175	74.4
12,280	139	77.1
0316: 00; S 2.7		
No. 67: 7/21/40; 0243; 1450–450g.; 2 AC W; SW 4.5		
35	973	40.8
*50	971	40.8
190	951	31.3
Data missing		
1,100	837	28.9
1,390	803	30.4
1,580	783	29.7
1,870	754	30.0
2,300	707	33.0
2,550	682	33.1
2,940	645	35.6
3,350	608	36.6
3,960	557	40.0
5,770	423	55.1
*7,240	335	60.8
*7,960	298	63.4
8,980	253	66.2
9,830	219	67.4
*10,560	194	69.7
12,730	134	76.2
0329: 3 AC W; SW 4.0		
No. 68: 7/22/40; 0221; 1450–450g.; 10 SC NE; E 4.0		
35	982	33.0
*50	980	33.0
130	969	29.9
230	956	29.6
*390	933	30.2
710	893	33.0
880	872	30.6
1,130	842	31.7
*1,670	779	32.6
1,920	753	33.3
2,180	725	33.2
2,450	697	35.1
*2,830	660	36.2
3,140	631	37.0
3,610	590	39.6
5,480	445	54.0
6,560	374	61.6
7,880	301	65.5
8,940	254	66.8
9,940	214	68.1
10,480	196	69.9
13,410	119	75.3
0315: 10 SC U; E 4.5		
No. 69: 7/23/40; 0300; 1450–450g.; 6 AC U; SE 1.8		
35	997	34.1
70	992	32.0
180	977	31.8
290	962	33.2
520	931	33.3
820	893	35.5
940	877	33.2
1,260	837	33.3
1,580	798	35.0
1,780	777	35.0
*2,130	739	36.2
2,740	677	37.1
3,580	598	41.4
4,600	514	48.7
5,440	452	54.2
6,580	377	61.0
7,630	317	64.5
8,620	270	66.0
9,400	237	69.2
12,540	139	72.0
14,080	107	78.3
0402: 5 AC U; S 2.7		
No. 70: 7/24/40; 0301; 1400–400g.; 8 AC NW; NNW 4.5		
35	997	27.6
100	986	30.2
430	943	29.2
930	879	33.1
1,080	860	32.0
1,860	770	37.5
1,980	756	37.5
*2,020	752	36.1
2,130	741	35.0
*2,250	727	35.2
2,470	705	35.2
*3,080	645	37.9
3,580	599	39.7
4,920	490	48.3
5,430	453	50.1
6,350	392	54.9
7,730	315	62.6
9,000	256	68.6
10,480	199	70.7
11,620	164	72.3
13,040	129	75.8
0353: 8 AC NW; NW 4.0		
No. 71: 7/25/40; 0214; 1450–450g.; 4 AC U; SE 4.5		
35	1,003	37.2
*50	1,001	37.7
270	971	31.8
420	953	31.0
470	944	29.2
*870	893	30.2
1,170	855	31.3
1,400	827	31.3
No. 71—Continued		
2,000	760	34.9
2,780	680	34.3
3,450	617	35.7
*4,280	547	40.2
4,860	502	42.9
5,660	446	48.6
6,900	367	55.8
8,110	303	63.8
0250: 4 AC U; SE 5.8		
No. 72: 7/26/40; 1243; 1450–450g.; 10 SC U; S 4.5		
35	975	23.2
80	969	26.2
160	959	23.8
*380	929	20.2
560	907	18.7
1,080	845	21.1
1,270	824	18.7
1,790	768	19.9
3,590	600	32.2
5,230	472	45.0
*5,650	443	48.3
*6,230	405	53.1
7,080	354	60.2
8,280	292	67.5
9,430	240	71.9
1315: 10 SC U; S 6.3		
No. 73: 7/29/40; 0237; 1450–450g; 10 AC NE; E 6.3		
35	972	27.4
140	959	15.8
640	896	19.1
Data missing		
1,680	780	20.2
1,940	752	21.7
*2,910	657	28.6
3,850	576	35.0
4,280	541	37.1
4,960	491	42.3
5,290	467	44.0
6,420	392	52.3
*6,930	362	57.6
7,440	334	61.5
Data missing		
8,770	268	70.9
9,080	253	74.4
10,000	217	79.0
10,810	188	81.3
0321: 10 AC U: E 6.3		
No. 74: 7/29/40; 1218; 1450–450g.; 10 SC U; E 5.4		
35	976	25.8
460	920	20.9
700	890	22.2
Data missing		
1,180	834	23.4
1,780	768	24.0
*1,980	747	25.3
2,850	662	32.8
3,230	627	33.6
*3,510	601	35.7
3,880	572	37.0
4,520	520	41.8
6,010	416	52.0
8,060	299	68.1
8,910	259	74.6
10,220	205	80.1
11,860	154	83.1
1257: 10 SC U; E 4.9		
No. 75: 7/30/40; 0257; 1450–450g.; 10 SC U; E 2.2; Light snow		
35	983	15.4
Data missing		
260	954	15.4
600	911	18.2
870	879	18.2
1,220	839	19.0
1,510	807	19.0
2,030	751	21.2
*2,780	678	27.0
3,680	597	34.6
4,230	552	35.0
*4,660	519	37.7
4,990	495	40.1
6,440	398	51.3
*6,890	371	55.3
*7,350	346	59.0
*7,730	325	62.1
*8,070	308	65.0
8,700	276	70.2
9,320	248	73.1
11,590	167	80.8
13,500	119	84.5
0358: 10 SC U; E 1.8		
No. 76: 7/31/40; 1215; 1450–450g.; 10 ST U; S 4.9		
35	967	20.2
60	964	23.7
110	959	23.8
410	919	20.7
710	881	20.5
1,500	791	25.9
2,010	738	28.1
2,200	717	28.3
3,140	629	34.0
3,410	605	33.7
3,890	565	30.4
4,120	547	40.2
4,460	519	42.5
1235: 10 ST U; S 4.5		
No. 77: 8/1/40; 1102; 1450–450g.; 2 ST U; SSW 4.0		
35	973	32.3
*50	970	33.7
120	960	34.7
*300	937	28.2
480	913	22.9
*760	880	23.2
940	859	22.7
1,320	815	24.6
1,890	753	29.8
2,220	719	30.9
2,350	706	30.1
*2,780	664	33.0
3,190	626	36.0
4,110	549	39.3
4,620	508	42.7
4,910	487	45.3
5,200	466	47.2
5,860	421	51.7
1130: 2 ST SW; S 4.5		
No. 78: 8/2/40; 1336; 1450–450g.; 10 ST U; W 0.9		
35	974	29.7
80	968	30.5
170	954	30.8
310	937	30.4
460	917	31.0
620	897	32.6
750	880	33.2
990	851	32.6
1,090	839	31.1
*1,260	819	30.8
1,530	788	30.9
*1,770	763	32.2
*2,030	734	33.3
2,430	693	35.3
*2,650	671	37.0
3,280	613	41.0
4,320	525	49.0
4,610	503	50.0
5,090	466	54.0
5,610	430	55.5
No. 78—Continued		
5,980	405	57.4
*6,490	374	58.8
6,840	354	60.2
7,870	299	67.8
1403: 10 ST U; W 2.7		
No. 79: 8/3/40; 0906; 1550–550g.; 00; SE 0.9		
35	976	44.0
140	960	36.6
240	947	36.6
*380	928	34.5
500	913	34.0
620	898	28.4
830	871	27.1
*1,240	823	28.4
2,060	733	32.4
2,230	716	31.0
2,390	700	31.2
*2,890	651	34.9
3,340	610	38.8
*3,700	579	41.1
4,280	532	44.3
4,890	485	47.0
5,180	465	47.2
6,810	361	58.2
*7,300	333	60.9
*8,130	291	65.7
8,940	254	69.7
10,170	207	71.6
10,820	185	74.3
12,950	128	77.7
0955: 00; S 1.3		
No. 80; 8/4/40; 0328; 1450–450g.; F AC NE; S 2.2		
35	967	44.7
140	952	40.0
280	933	39.6
670	883	35.3
1,060	835	32.9
1,300	806	32.7
*1,670	765	34.1
1,880	742	34.6
2,410	687	37.1
2,650	663	37.7
3,340	600	41.4
4,000	544	46.0
5,200	453	52.0
*6,730	356	61.1
7,390	320	65.0
*8,050	287	67.6
9,980	207	73.7
10,390	193	73.5
11,480	160	76.4
12,370	137	77.5
0432: 1 AC NE; S 3.1		
No. 81: 8/5/40; 0252; 1450–450g.; 2 AC SW; SE 1.8		
35	959	51.2
60	954	49.8
120	946	38.8
240	930	31.0
380	912	29.8
730	868	30.7
1,000	836	31.8
1,250	806	33.7
1,390	790	34.0
1,520	776	32.1
1,920	734	33.0
2,630	661	37.3
3,410	591	40.5
4,420	508	49.0
4,880	473	50.3
*5,930	401	56.2
6,550	364	59.3
*7,630	305	65.0
8,690	256	69.7
9,820	211	76.1
10,770	179	79.4
11,550	156	80.1
0352: 2 AC SW; S 2.2		

*Levels whose omission would leave curves materially unchanged.

TABLE 1.—*Results of radiosonde observations, Little America III, by significant levels*—Continued

Altitude (m.)	Pressure (mb.)	Temperature (−°C.)
No. 82: 8/6/40; 0301; 1450–450 g.; 9 AC U; S 4.5		
35	957	43.4
340	916	27.3
420	903	24.1
710	870	21.5
1,260	807	23.7
1,750	754	24.5
2,170	711	27.3
2,890	644	29.6
3,170	619	31.8
3,930	555	32.8
4,890	483	41.6
6,360	387	54.8
*7,830	305	66.2
*8,250	285	69.4
8,470	275	71.0
8,770	262	70.5
9,120	245	73.0
9,390	235	73.2
*10,500	194	78.9
11,100	174	81.8
11,850	152	80.4
12,370	139	82.7
0355: 10 AC U; S 2.7		
No. 83: 8/7/40; 0318; 1400–400 g.; 6 AS NE; N 5.4		
35	963	24.1
220	937	25.0
780	869	29.6
920	851	30.0
1,110	829	26.2
1,440	790	26.0
1,590	774	27.6
2,180	713	29.8
2,580	675	29.7
2,790	655	30.7
3,140	623	34.4
3,450	596	35.3
4,030	548	40.6
4,250	531	41.0
5,130	466	47.8
5,640	431	49.7
*5,960	411	51.8
6,380	384	55.1
*7,180	339	59.7
7,810	306	63.2
8,300	283	67.3
8,800	260	69.0
9,050	249	69.3
9,330	238	71.6
9,740	222	71.6
10,230	204	73.8
12,040	149	78.1
0405: 5 AS NE; N 7.6		
No. 84: 8/8/40; 1252; 1600–400 g.; 4 AC U; E 5.4		
35	979	28.6
50	975	29.5
90	970	28.3
210	954	28.6
280	945	28.2
320	939	28.7
380	932	28.3
670	895	30.7
1,080	845	30.6
1,140	837	29.1
1,290	821	29.1
1,590	787	31.0
1,720	773	30.1
1,830	761	30.2
2,010	742	28.6
*2,710	672	30.5
3,140	632	32.0
3,540	597	35.9
4,090	552	38.8
4,580	514	43.1
5,140	472	47.0
6,120	406	54.7
7,440	327	63.4
7,780	309	66.5
8,290	284	69.1
9,090	248	72.0
9,800	221	72.0
10,910	182	77.0
11,300	171	77.3
1344: 4 AC U; E 5.8		
No. 85: 8/9/40; 0832; 1500–300 g.; 00; SW 5.4		
35	970	39.8
*110	959	37.1
240	942	31.1
320	932	29.8
510	906	28.2
710	882	28.8
850	865	28.7
990	849	26.7
1,120	832	26.5
1,240	819	26.0
1,890	748	29.2
2,660	672	32.3
2,930	646	33.0
*3,430	601	35.9
3,710	578	37.1
4,030	551	40.0
4,310	530	41.2
4,780	494	44.2
0909: F AC U; S 4.5		
No. 86: 8/10/40; 0913; 1550–350g.; 10 ST SE; SSE 3.1		
35	968	31.7
310	931	27.8
420	918	24.6
630	892	22.4
780	874	22.1
1,060	840	22.6
1,390	802	24.1
1,550	785	24.1
1,780	761	25.9
1,970	741	25.9
2,010	736	25.5
2,670	672	29.5
2,840	656	27.9
3,460	602	31.6
4,420	525	35.4
5,280	464	41.6
*6,020	414	48.4
6,600	379	53.6
*7,230	342	59.5
7,890	308	65.0
8,550	277	70.0
1004: 10 ST SE; SE 8.9		
No. 87: 8/11/40; 1301; 1650–450g.; 9 AC E; E 4.9		
35	964	25.5
60	961	22.1
120	953	22.1
320	927	24.2
570	897	24.2
820	866	25.6
1,360	803	24.3
1,630	774	22.5
2,100	726	22.5
2,210	715	23.6
2,560	682	24.2
2,770	663	25.9
3,180	626	27.4
3,650	586	30.8
4,900	490	41.7
5,110	475	42.4
*5,540	446	46.0
*5,810	428	49.0
7,030	352	59.9
7,720	316	65.0
7,990	302	64.8
9,420	237	77.5
11,750	157	82.6
1403: 9 AC E; E 6.3		
No. 88: 8/12/40; 0810; 1600–600g.; 10 AC S; SW 3.6		
35	973	22.0
180	953	20.3
560	906	18.9
1,190	832	22.0
1,580	789	26.0
1,680	778	25.5
1,930	751	28.0
2,020	742	26.0
2,230	720	26.3
2,450	700	28.4
No. 88—Continued		
3,380	612	34.5
3,580	596	34.1
3,770	579	35.2
4,470	524	42.3
5,380	457	49.8
5,970	418	53.3
6,690	373	59.4
7,430	329	62.6
8,210	290	68.1
9,250	244	73.4
10,750	188	79.2
0911: 10 AC U; SW 4.5		
No. 89: 8/13/40; 0831; 1600–400g.; 8 AS W; W 0.9		
35	967	33.6
50	963	28.0
180	947	20.9
320	930	17.4
610	894	15.0
1,020	847	13.9
1,420	803	14.8
*2,010	743	18.1
2,260	718	19.0
2,850	663	22.1
3,130	638	24.6
*3,810	581	28.0
4,420	533	30.3
4,680	515	32.7
5,070	487	33.6
6,180	414	41.7
*6,750	380	46.3
7,490	339	51.8
*8,070	310	56.8
8,970	268	64.3
9,470	247	68.2
10,010	226	73.7
0946: 9 AS W; W 1.3		
No. 90: 8/15/40; 0821; 1600–400g.; 10 AC NW; E 2.2		
35	963	33.9
90	955	28.4
320	925	27.6
700	878	31.0
890	854	27.6
1,230	813	25.5
1,780	755	26.8
2,200	712	26.0
2,780	658	26.3
*3,000	638	27.7
3,620	585	30.0
*4,720	500	37.5
5,290	460	41.0
*6,410	388	49.6
6,810	364	51.9
7,880	308	60.2
8,550	277	64.6
9,050	254	67.1
9,470	238	67.0
10,430	202	72.6
12,270	147	73.8
13,430	121	70.9
0943: 8 AC N; E 2.5		
No. 91: 8/16/40; 0902; 1600–400g.; 4 SC NE, 6 AS NW; E 5.8		
35	968	30.0
260	938	25.7
520	904	25.3
1,180	825	29.8
1,590	780	29.9
1,750	762	29.0
2,120	723	29.8
2,620	675	29.2
3,550	591	33.1
4,220	537	38.1
5,220	463	47.1
5,970	412	52.9
6,550	377	57.2
7,580	319	62.5
8,800	262	66.9
10,300	204	71.5
12,210	146	73.1
13,620	115	79.0
1033: 10 SC NE; E 6.3		
No. 92: 8/17/40; 0836; 1600–400g.; F AC E; NE 2.2		
35	972	39.8
*40	970	31.6
70	968	29.4
160	956	27.6
280	939	27.6
*710	885	31.1
830	870	31.9
*1,040	843	29.6
1,290	815	27.3
1,530	788	26.6
1,730	767	27.6
1,860	754	27.0
2,770	664	30.2
3,210	623	33.2
3,480	599	34.6
4,160	543	40.0
4,620	508	42.1
5,890	419	53.3
6,510	379	56.6
*7,400	328	59.4
*7,550	321	60.3
7,860	305	61.6
8,950	256	66.7
10,030	214	70.3
Data missing		
10,770	189	73.0
12,470	141	77.1
1037: 00; E 2.7		
No. 93: 8/18/40; 0909; Wt. Missing.; 10 ST U; S 3.6		
35	963	34.1
120	952	30.3
350	921	26.8
930	849	28.2
1,040	836	27.3
1,280	809	27.9
1,660	767	30.2
1,980	733	28.4
2,270	704	30.0
3,170	621	31.9
3,860	563	38.4
5,380	449	47.0
*5,960	411	50.9
6,710	366	55.2
0946: 10 ST U; S 4.9		
No. 94: 8/19/40; 1246; 1600–400g.; 10 AC NW; S 0.9		
35	940	22.6
230	916	18.1
1,180	804	25.1
1,520	768	24.0
1,720	747	24.7
1,840	735	23.8
2,190	700	23.8
2,680	655	27.7
2,840	640	26.5
3,000	626	27.2
3,860	555	33.8
*4,370	516	38.7
4,910	476	43.0
6,200	390	55.2
6,850	354	58.1
7,400	323	58.7
*7,980	293	61.7
8,500	271	64.6
9,500	229	69.4
10,880	181	72.5
12,530	136	77.5
14,290	100	83.2
1409: 10 AC NW; S 1.3		
No. 95: 8/21/40; 1853; 1600–400g.; 10 SC E; S 4.5		
35	968	31.7
80	961	28.3
460	913	22.5
750	878	24.0
900	860	23.9
1,250	819	26.5
*1,440	797	24.9
1,730	767	22.9
2,260	713	25.4
3,080	636	31.8
No. 95—Continued		
*3,430	604	33.2
3,700	582	34.5
4,010	556	37.6
5,530	444	49.6
5,790	427	50.2
7,900	305	64.7
*9,040	252	70.7
9,580	231	73.8
*10,780	188	75.6
11,930	153	78.4
12,790	132	79.5
2017 10 SC E; S 4.9		
No. 96: 8/22/40; 1234; 1750–400g.; 00; WSW 6.2; Ice crystals		
35	974	42.1
*50	970	39.5
130	960	33.3
220	947	29.0
*330	933	27.8
460	916	26.9
670	891	26.7
1,130	835	27.8
1,300	817	27.4
1,740	769	28.2
2,070	735	29.5
2,280	714	29.5
3,750	577	38.6
*4,600	509	44.2
5,480	446	49.4
6,220	397	53.3
7,050	349	59.3
7,420	328	60.7
8,180	290	64.6
8,940	256	67.6
10,080	212	70.6
11,280	172	75.2
12,220	146	76.5
13,800	111	80.5
1,356; 00; SW 6.7		
No. 97: 8/24/40; 1534; 1800–425g.; 10 SC U; SE 3.1		
35	969	23.6
*100	961	22.7
270	940	16.1
380	926	14.2
560	903	14.7
1,000	852	18.7
1,180	832	16.1
1,740	771	19.0
2,160	728	22.7
2,820	665	26.8
3,510	604	30.0
4,690	510	40.7
5,950	422	51.8
6,840	367	58.7
7,320	338	59.6
8,230	292	66.1
Data missing		
10,000	218	71.2
11,530	168	77.4
11,900	157	76.5
13,030	129	78.6
1659: 10 SC U; S 4.9; Sunrise 2148, Sunset 2400		
No. 98: 8/25/40; 2015; 1670–300g.; F AC S; SW 3.6; Sunrise 2127		
35	963	47.0
90	955	47.0
160	947	37.4
*200	940	33.8
330	924	28.8
490	902	25.5
*950	848	23.0
1,130	827	22.5
1,500	787	23.8
2,220	712	23.8
*2,820	655	28.1
3,870	565	36.0
5,120	470	45.6
6,120	404	54.0
6,780	363	58.9

*Levels whose omission would leave curves materially unchanged.

TABLE 1.—*Results of radiosonde observations, Little America III, by significant levels*—Continued

Altitude (m.)	Pressure (mb.)	Temperature (−°C.)
No. 98—Continued		
8,050	295	64.9
*8,770	263	68.5
9,570	230	72.7
12,040	150	78.3
14,680	94	81.5
2207: F AC S; SW 4.5; Sun 0°55′ Sunset 0021		
No. 99: 8/26/40; 1932; 1650–275g.; 8 AC W; W 0.9		
35	962	44.0
120	949	27.5
220	936	24.7
470	906	23.7
710	877	26.0
740	873	25.0
1,190	820	22.0
1,420	794	22.4
1,820	752	25.8
2,100	723	26.1
2,890	649	30.3
3,330	610	32.0
4,280	532	38.3
4,820	491	39.9
5,350	454	43.1
6,140	403	48.3
*7,190	343	56.0
8,120	295	63.2
8,580	274	66.7
9,210	247	69.4
2056: 9 AC W; SW 2.7; Sunrise 2109		
No. 100: 8/28/40; 0008; 2000–625g.; ;10 SC W; E 2.2; Sunset 0108		
35	975	33.4
*70	971	29.0
160	961	23.8
340	936	23.9
680	894	26.3
1,050	848	25.0
1,290	819	21.3
1,780	766	22.0
2,430	702	23.9
*2,870	660	27.9
3,300	621	31.1
4,240	543	39.3
4,800	501	42.7
5,330	463	45.0
6,080	412	50.2
6,840	367	53.6
7,530	329	58.9
8,100	301	61.8
9,050	256	69.0
9,790	227	72.7
10,710	194	73.0
11,900	157	79.4
13,130	127	80.7
1000: 10 SC U; E 4.0		
No. 101: 8/29/40; 0806; 1700–325g.; 5 AC U; S 3.6; Sunset 0121		
35	975	37.1
*100	966	34.6
230	948	30.4
*840	872	27.4
1,300	816	24.5
2,240	717	27.1
2,450	697	28.4
2,800	663	29.6
*3,680	585	36.8
*4,700	503	44.1
5,560	442	51.3
*6,880	359	58.3
8,620	271	68.4
8,980	255	68.8
0919: 4 AC U; S 4.5		
No. 102: 8/30/40; 0825; 1675–300g.; 00; S 0.9; Sunset 0132.		
35	974	47.7
*120	962	38.3
290	939	31.5
760	879	26.0
1,190	828	29.1
1,880	752	29.7
*2,470	691	31.9
3,100	632	34.0
3,580	590	38.0
4,100	547	40.7
*4,800	496	46.3
5,420	448	51.7
5,970	412	54.6
6,610	372	55.5
7,410	326	60.6
7,890	302	62.1
8,520	272	66.0
*9,630	226	71.3
10,860	184	76.6
1027: 00; S 1.8		
No. 103: 9/1/40; 0918; 1675–350g.; 00; Calm; Sunset 0155		
35	980	58.5
150	964	36.0
280	946	31.2
420	926	28.9
590	906	28.3
880	869	30.1
1,010	853	30.1
*1,200	830	31.0
*1,410	805	32.9
1,740	769	34.8
*2,030	738	33.8
2,200	722	32.5
2,790	663	32.4
3,530	595	37.3
4,130	545	42.4
*5,210	462	49.8
5,990	411	54.6
*7,180	340	60.2
8,120	292	64.8
1021: 00; SE 0.9		
No. 104: 9/3/40; 0816; 1700–325g. 00; Hazy; S 5.8; Sunset 0215		
35	967	55.9
200	944	38.7
310	929	34.8
*800	868	31.7
1,030	839	29.3
1,160	825	29.2
1,240	812	28.1
2,470	685	32.4
3,310	605	39.4
3,490	591	38.8
3890	559	39.0
*4280	526	43.3
4860	482	48.9
*5250	454	51.2
*5770	418	54.6
6400	379	58.8
7200	333	59.8
7800	303	63.1
9010	246	68.0
*10180	204	71.8
11630	159	75.7
0957: 00; S 2.2		
No. 105: 9/4/40; 0819; 1750–375g.; F AC U; SE 4.5; Sunset 0225		
35	968	51.3
*140	954	37.2
200	946	32.2
*330	928	29.0
440	912	28.1
860	864	30.9
*920	856	29.2
1150	827	27.1
1810	753	28.2
2060	728	30.3
2350	699	31.1
*3120	627	36.5
3400	602	37.6
*3910	558	41.1
No. 105—Continued		
4600	503	46.9
4780	490	47.3
6310	387	56.8
*6950	350	58.9
7890	302	62.1
*8320	281	64.2
8870	256	68.0
0036: F AC U; S 3.6		
No. 106: 9/5/40; 0828; 1675–300g.; 00; W 3.8; Sunset 0234		
35	964	55.3
190	942	41.8
*500	901	33.6
*600	888	28.7
740	871	24.9
1,060	833	21.2
Data missing		
2,230	710	27.5
2,320	701	27.5
2,690	667	30.1
3600	586	34.3
*4,240	534	38.7
4640	503	41.2
5900	417	50.5
*6220	394	53.1
*6870	357	57.4
7280	334	61.0
*8170	289	66.4
9230	242	73.4
*9800	220	74.1
10500	195	74.6
*11610	161	76.3
12790	131	78.5
1011: 00; SW 3.8		
No. 107: 9/6/40; 2151; 1750–375g.; F AC NW; S 5.2; Sun 4°40′		
35	967	49.7
110	955	47.9
210	942	37.4
*320	927	32.2
*430	913	26.7
550	897	21.5
640	886	20.7
*1210	819	21.3
*1580	781	22.0
*1890	749	23.0
*2350	702	25.1
2630	675	26.0
*3150	629	29.0
3460	602	30.8
4130	547	36.0
*4590	512	39.2
*5500	434	47.2
7250	341	58.8
8110	296	63.4
9080	253	65.2
Data missing		
12380	142	#90.0
#Instrumental limit		
2326: Sun 5°03′; F AC NW; SW 6.9		
No. 108: 9/8/40; 0812; 1675–300g.; 00; S 2.2; Aurora to E; Radio noisy; Sunset 0302		
35	969	56.9
*180	949	48.0
270	937	41.2
340	929	39.9
*460	913	31.0
540	900	27.2
860	864	23.4
*1,110	833	24.0
1,710	767	24.9
2,330	703	24.0
2,790	661	27.9
2,970	644	28.4
3,310	614	30.0
4,670	505	39.8
5,130	471	40.4
No. 108—Continued		
5,890	422	45.2
6,580	380	48.2
*7,790	316	55.7
*8,300	291	58.8
9,410	243	66.0
0936: 00; S 3.1		
No. 109: 9/10/40; 2041; 1650–300g.; 8 CI NW; W 1.8; Sun 4° 36′		
35	980	50.0
*50	978	48.8
100	967	40.4
130	955	39.8
Data missing		
530	918	30.8
670	897	28.8
1,120	841	26.1
2,270	718	27.0
2,550	690	28.4
Data missing		
3,020	647	28.0
4,700	507	39.0
5,760	433	47.5
*7,170	348	57.8
7,620	323	61.2
*8,600	275	67.3
9,390	241	71.7
10,710	192	75.9
Data missing		
12,480	141	79.7
13,650	115	80.3
2219: 7 CI NW; SE 1.3; Sun 6° 26′		
No. 110: 9/14/40; 0745; 1700–325g.; 10 ST U; S 5.4; Sunset 0352		
35	976	33.0
50	973	33.0
80	970	31.0
260	946	30.2
610	899	33.8
790	878	30.1
*1,380	807	29.5
2,100	730	28.2
*2,830	659	30.9
2,970	646	32.0
3,130	631	32.0
3,470	601	34.6
3,830	571	37.0
3,980	559	38.3
4,170	544	39.0
5,020	480	45.4
*6,090	408	52.2
6,720	370	57.0
7,820	310	62.7
*8,730	266	65.8
10,510	198	71.1
0918: 10 ST U; S 4.0		
No. 111: 9/16/40; 0845; 1700–325g.; 00; SSW 1.8; Sunset 0409		
35	975	52.4
150	960	33.8
*230	949	30.4
460	920	25.5
970	857	24.6
1,070	845	23.3
1,510	795	21.3
*1,870	758	21.9
2,330	711	24.2
*2,900	658	28.3
3,500	599	33.8
3,890	571	35.4
5,000	485	44.8
*5,510	449	47.8
*6,210	403	53.0
*6,820	368	56.6
7,570	326	62.0
8,290	290	62.8
*8,970	259	66.9
10,380	205	72.0
10,770	192	71.1
12,730	137	75.9
14,705	97	77.8
1045: 00; S 1.8		
No. 112: 9/17/40; 2042; 1700–325g.; 00; S 2.8; Sun 7°25′		
35	973	50.4
50	971	41.9
*140	959	35.1
200	952	33.0
290	940	32.0
430	919	32.4
790	876	24.4
1,030	846	22.3
*1,340	812	22.6
1,550	789	23.4
*1,730	770	25.3
*2,230	719	27.9
3,040	642	33.8
3,610	590	36.8
3,820	572	39.1
4,000	558	39.1
*4,470	522	42.6
*4,800	496	45.6
*4,970	484	46.0
5,300	460	49.1
*5,660	435	51.0
6,110	405	53.4
6,390	388	53.4
*6,700	370	54.7
*7,070	349	55.6
*7,690	317	58.2
7,980	303	59.0
*8,620	273	62.5
*8,940	259	63.1
9,460	238	65.8
9,900	221	65.3
11,950	157	71.5
16,920	67	75.8
2241: Sun 9°12′; 00; S 3.2		
No. 113: 9/19/40; 0812; 1700–325g.; 00; E 3.8; Sunset 0441		
35	978	52.0
*100	970	38.9
140	964	35.0
*500	917	32.4
*580	907	31.2
1,290	819	25.8
2,230	719	30.3
*3,440	604	39.0
3,650	586	40.0
4,630	505	44.6
5,790	426	50.7
*6,770	366	58.1
*7,380	331	61.8
7,870	306	64.9
8,120	294	65.3
8,530	274	68.6
9,330	239	71.6
10,250	205	73.2
10,630	192	75.1
0058: 00; E 2.2		
No. 114: 9/22/40; 0815; 1700–325g.; 00; W 1.8; Sunset 0457		
35	970	47.8
200	949	30.7
290	936	28.0
400	922	27.1
710	883	27.8
*1,420	799	33.3
1,730	763	35.2
2,140	720	34.9
2,750	660	33.3
2,980	639	34.1
3,520	591	37.8
0845: 00; W 0.9		
No. 115: 9/25/40; 0806; 1700–325g. 8 AC NW; NNW 4.0; Sunset 0521		
35	948	21.4
350	910	22.5
730	863	25.6
1,100	819	27.2
1,530	771	27.4
1,680	756	26.4
2,270	697	25.8
*3,410	594	31.7
4,190	531	35.2
*5,300	451	44.5

*Levels whose omission would leave curves materially unchanged.

TABLE 1.—*Results of radiosonde observations, Little America III, by significant levels*—Continued

Altitude (m.)	Pressure (mb.)	Temperature (−°C.)
No. 115—Continued		
6,030	403	51.6
*6,700	365	55.4
*7,310	330	59.1
7,840	303	62.1
8,280	283	65.4
8,810	259	66.4
9,590	228	69.6
*11,730	158	74.8
12,670	134	76.8
0956: 7 AC NW; W 6.3; 2-day blizzard stopped 0555		
No. 116: 9/26/40; 0930; 1750–375g.; 1 AC N; NE 5.4; Sunset 0530		
35	976	25.9
50	973	21.3
630	900	21.1
*800	880	23.0
*1,450	803	29.6
1,620	785	31.0
1,900	755	31.3
2,110	732	28.0
3,000	648	30.0
3,270	623	31.3
3,580	596	31.9
3,890	570	33.4
4,610	513	40.3
5,500	449	45.8
6,180	406	51.4
6,390	394	51.4
*7,480	332	58.4
*8,370	288	64.5
8,940	262	67.7
*9,580	236	70.2
10,310	208	74.3
*11,230	177	76.5
12,440	143	79.4
1110: 3 AC NE; E 7.6		
No. 117: 9/29/40; 0230; 1700–325g.; 6 AC E; E 3.1; Sun 9°34′		
35	966	20.2
280	934	15.0
640	888	13.7
*890	859	15.7
*1,060	840	16.9
1,320	812	18.8
2,680	675	25.9
3,060	640	29.3
3,650	590	32.9
4,260	544	37.9
4,800	497	41.4
5,300	462	46.4
6,210	402	54.5
0311: Sun 7°47′; 10 SC E; SW 4.5 (Balloon entered clouds 0244, 2500 m.)		
No. 118: 10/1/40; 0754; 1700–325g.; 4 AC NW; NE 3.6; Sunset 0610		
35	971	15.1
40	970	15.6
190	952	15.0
540	907	16.6
750	883	16.5
1,350	815	19.9
1,930	752	25.0
2,180	727	25.7
*2,600	686	28.7
2,870	661	30.8
*3,220	629	32.9
4,240	542	40.0
*4,480	524	42.0
4,860	495	45.7
6,030	413	55.4
*6,370	393	57.4
6,690	373	60.1
*6,880	362	61.5
*7,520	325	64.8
7,990	302	67.4
8,280	288	67.8
8,690	269	70.6
9,070	252	69.5
*9,750	225	71.9
10,630	193	75.1
12,090	150	75.1
12,720	134	78.6
13,180	124	77.3
0942: N 8.9 Snow & drift. 977 mb.		
No. 119: 10/2/40; 1954; 1675–300g.; 4 CI N; S 4.0; Sun 11°10′		
35	990	16.9
*40	989	16.9
50	988	13.8
120	977	10.3
680	909	10.6
1,250	844	14.4
*1,870	778	17.0
2,100	754	17.4
*2,950	672	23.9
3,450	627	27.5
4,080	574	31.3
*4,900	510	37.7
5,220	487	39.6
*5,560	464	43.0
6,270	417	49.5
*7,310	354	58.4
*7,930	320	62.8
8,210	306	65.4
*8,680	284	68.2
9,070	265	71.1
*9,680	240	74.2
10,370	213	77.9
10,720	200	77.0
12,400	149	77.7
14,170	110	75.3
15,190	92	76.0
15,380	89	75.0
16,690	71	77.0
17,750	59	73.6
18,840	49	72.3
2152: Sun 14°26′; 2 CS U; SSE 3.1.		
No. 120: 10/3/40; 1219; 1675–300g.; 4 CS U; SSW 4.9; Sunrise 1547		
35	978	33.3
*60	974	30.3
120	966	21.0
*280	946	14.2
340	937	11.8
600	905	11.0
1,310	826	14.2
1,790	776	15.0
2,540	701	21.8
2,990	659	23.9
3,350	627	26.9
3,750	592	31.5
*4,470	535	37.5
5,580	454	48.0
5,990	426	51.4
6,200	412	52.3
*6,970	366	58.7
*7,390	342	61.5
7,780	322	64.8
8,470	287	68.1
9,160	255	68.1
9,800	230	72.6
10,180	215	71.1
10,690	197	73.9
11,000	187	71.7
11,650	167	76.4
12,170	153	72.4
12,490	145	73.6
1415: 3 CS U; S 5.8		
No. 121: 10/5/40; 0251; 1700–325g.; 2 SC W; W 3.6; Sun 11°01′		
35	954	23.7
150	940	26.1
*270	924	25.9
*500	893	26.2
910	846	26.2
1,330	797	21.9
*2,520	677	27.4
3,330	604	30.9
4,200	534	37.0
0330: Sun 9°19′; 6 SC W; NW 4.5		
No. 122: 10/6/40; 0812: 1700–00; W 0.9; Sunset 0654		
35	981	31.0
100	971	21.8
*180	963	19.8
290	947	17.7
530	917	17.2
1,210	837	20.4
1,340	823	19.6
1,660	789	22.6
2,000	752	21.8
*2,560	697	25.8
3,040	652	29.3
3,520	608	30.7
4,070	564	34.5
*4,790	508	38.1
4,880	501	38.6
5,120	484	41.4
5,410	464	40.8
5,820	437	42.8
*6,470	397	47.9
7,340	347	53.9
*8,000	312	60.0
8,430	291	63.4
8,940	268	66.5
9,360	250	67.1
10,130	220	70.5
11,720	168	73.2
12,620	144	73.9
1015: 8 FC W; S 2.7; 983 mb.		
No. 123: 10/7/40; 0810; 1725–350g.; 10 SC U; SE 4.0; Sunset 0701		
35	991	18.5
80	984	16.1
*340	951	17.1
610	917	18.8
*790	896	21.1
1,080	862	23.6
1,130	856	21.4
*1,200	847	21.1
1,620	800	20.9
1,930	769	23.8
2,500	709	26.8
2,770	683	28.6
3,070	655	28.0
3,760	595	33.0
4,000	574	33.7
5,030	493	40.8
5,520	460	42.4
*6,030	426	46.7
6,600	390	50.8
7,000	367	52.7
7,640	332	58.7
*8,720	279	64.1
*9,440	243	67.9
10,100	222	69.7
11,100	188	68.5
12,230	155	72.8
13,170	132	73.9
13,580	123	75.2
15,470	89	72.8
1027: 10 SC U; E 4.5		
No. 124: 10/8/40; 0902; 1700–325g.; 3 CI W; SSW 3.1; Sunset 0710		
35	972	37.3
130	958	27.9
500	911	28.9
600	899	25.0
830	870	23.0
1,010	849	23.3
1,410	804	25.6
1,560	789	25.6
2,130	727	29.9
2,500	691	31.9
2,640	677	31.5
3,010	642	33.6
*3,930	562	40.9
4,770	497	47.9
*5,220	464	46.6
*5,460	448	46.8
5,680	433	45.6
6,000	412	47.4
6,630	373	48.7
*7,560	325	55.8
8,170	295	59.5
8,410	283	60.7
8,600	275	62.1
9,010	255	63.0
9,270	246	64.7
*10,370	206	67.0
11,430	172	69.2
12,400	146	68.8
12,740	138	69.4
1056: 4 CI NW; SW 6.3		
No. 125: 10/9/40: 0005; 1700–325g.: 2 CI N; S 4.0 Sunset 0720		
35	969	42.8
100	961	27.8
200	948	25.4
*300	934	25.0
400	920	24.8
1,090	837	28.8
*1,210	824	28.0
1,380	805	25.5
1,530	787	25.5
*2,340	703	29.0
2,750	665	30.9
3,190	625	34.2
*3,470	600	35.9
3,800	572	37.0
4,200	540	36.0
4,500	517	36.8
*5,150	471	40.2
5,770	430	43.8
5,960	418	45.9
6,500	384	49.4
6,990	357	50.9
*7,320	338	54.0
8,220	296	60.0
1021: 5 CI N; S 4.0		
No. 126: 10/10/40; 0811; 1675–300g.; 8 CS N; S 2.7; Sunset 0729		
35	973	35.2
110	962	28.0
*230	946	25.6
300	938	24.8
800	876	25.8
1,020	849	24.5
1,090	842	25.0
1,250	823	23.9
1,510	794	24.9
1,700	775	24.2
1,830	759	25.5
2,310	711	26.9
2,930	653	31.0
3,300	620	31.0
4,000	554	34.0
*4,650	510	38.1
5,400	457	44.0
*6,000	417	48.2
6,710	374	53.9
7,010	357	54.9
8,190	297	62.9
9,100	255	65.3
9,330	245	64.6
9,800	228	66.3
10,370	207	67.4
0942: 9 CS N; S 1.8; 975 mb. S		
No. 127: 10/12/40; 1908; 1700–325g.; 1 CS SW, 1 AC NE; SW 3.6; Sun 12°49′		
35	959	41.5
120	948	26.4
*180	942	23.8
*290	928	21.9
340	920	20.3
460	906	19.9
*490	902	18.8
580	892	17.4
790	867	18.5
870	858	18.0
1,320	806	20.1
1,500	787	19.2
*1,790	757	20.2
2,510	684	24.4
3,060	636	26.0
3,520	596	29.9
*3,900	565	32.0
4,330	531	35.1
5,000	482	40.8
5,520	446	45.4
6,310	395	52.8
*6,800	367	56.0
*7,200	343	59.8
7,400	332	61.0
8,160	294	67.6
8,870	262	66.1
*9,510	235	66.4
10,290	207	67.8
10,610	196	67.4
13,000	132	69.9
14,300	106	66.1
14,810	97	66.4
15,410	88	64.9
16,400	75	64.3
2115: Sun 18°11′; F CS SW, F AC U; SSW 3.1; −33°		
No. 128: 10/17/40; 0845; 1725–350g.; F AC SW; WSW 2.2; Sunset 0844		
35	956	32.8
*100	949	29.9
*150	941	27.7
280	926	20.8
*390	910	19.3
610	884	17.3
1,040	834	18.4
1,360	800	17.8
1,800	755	17.9
2,430	693	21.0
*2,980	643	27.7
*3,350	610	31.0
*3,600	589	32.3
4,100	549	37.1
4,240	538	36.8
*5,190	468	45.9
5,720	430	51.7
6,510	380	55.2
7,320	334	61.9
7,750	312	63.5
8,420	279	64.6
1019: 10 AS SW; SW 2.2; Light fog		
No. 129: 10/20/40; 0911; 1750–375g. 10 SC NE, F AS U; NE 8.0; Sun 2°32′.		
35	965	22.0
50	953	16.8
190	947	16.8
480	910	19.0
710	882	18.8
*960	854	19.5
1,500	794	22.4
1,760	766	21.9
2,360	706	24.9
2,640	678	25.2
3,140	633	28.1
4,300	537	36.7
*5,180	471	44.0
5,770	431	50.2
*6,350	393	54.8
*6,730	370	57.9
*7,170	346	61.1
7,620	321	64.6
8,110	296	66.6
*8,420	282	68.7
8,800	265	70.4
9,080	253	70.1
9,600	232	71.3
9,800	224	70.4
10,530	197	70.6
11,200	176	69.8
12,570	140	70.4
1053: Sunset 0926; 10 SC NE; NE 7.6; −16°; light snow.		

*Levels whose omission would leave curves materially unchanged.

TABLE 1.—*Results of radiosonde observations, Little America III, by significant levels*—Continued

Altitude (m.)	Pressure (mb.)	Temperature (−°C.)
No. 130: 10/22/40; 1930; 1725–350g.; F CI W; SW 2.2; Sun 16°5′		
35	978	26.4
170	962	11.9
330	940	8.0
430	928	7.0
580	911	7.0
1,380	821	10.8
2,120	744	14.9
2,390	719	17.3
2,970	665	19.4
1929: Sun 17°14′; F CI W; SW 2.7		
No. 131: 10/26/40; 2019; 1750–375g.; 3 AC, 4 CS NW; S 1.8; Sun 20°33′		
35	969	25.3
200	949	14.0
290	939	12.8
490	913	14.6
670	892	14.1
990	854	16.3
1,200	830	15.1
1,530	793	14.9
1,900	757	16.3
1,990	748	15.0
2,500	698	16.9
2,890	664	21.0
3,250	632	22.1
4,140	559	29.0
*4,490	533	30.8
4,890	503	33.8
*5,600	454	40.2
*6,030	425	44.1
6,600	391	48.7
*7,690	330	57.1
8,660	281	65.2
*9,020	263	67.9
9,400	249	69.7
9,730	235	68.2
11,200	185	67.9
12,300	154	62.3
12,830	141	63.3
13,870	120	57.3
15,790	89	52.6
18,120	62	45.0
19,320	52	38.8
2229: Sun 23°39′; 6 CS W; SSE 2.2		
No. 132; 10/30/40; 0842; 1725–350g.; 9 AS NE; ESE 3.1; Sun 4°42′		
35	969	20.7
190	952	14.2
400	923	13.3
1,100	841	15.9
1,400	809	15.8
*1,880	759	18.0
2,360	712	20.5
2,830	667	23.6
3,340	622	25.6
3,800	583	30.0
4,390	536	33.8
4,600	520	35.7
4,800	504	36.1
*5,100	483	38.2
*5,440	459	40.9
5,830	433	44.0
6,040	421	45.0
6,620	387	49.7
7,260	350	53.4
*7,930	314	59.0
*8,380	293	62.8
8,610	283	64.3
9,030	263	63.4
9,410	248	63.9
10,240	217	60.6
11,620	174	58.9
12,060	162	56.6
1008: Sun 3°25′; 8 AS NE; SE 3.1		
No. 133: 11/1/40; 1829; 1700–325g.; F CI S; S 2.2; Sun 19°32′		
35	976	26.8
70	973	27.7
110	966	21.5
570	910	14.6
610	904	14.9
830	878	10.0
1,040	855	10.3
1,510	803	12.9
1,600	794	12.9
2,170	737	15.8
2,770	680	19.8
3,100	650	20.6
*4,100	567	27.7
4,700	522	32.7
4,980	501	33.8
6,200	418	44.8
*6,880	379	49.6
*7,430	346	53.0
7,950	320	56.4
9,100	268	61.6
9,800	240	57.7
11,100	195	57.7
11,890	172	59.0
12,300	161	56.1
13,990	124	53.2
14,590	113	51.0
15,700	95	48.8
18,410	63	41.4
22,140	37	28.2
2040: Sun 23°35′; 4 AC S; ESE 4.9		
No. 134: 11/5/40; 0853		
Record non evaluable. Good, clear, long record obtained, but with defective baroswitch. Several attempts to evaluate record along various lines all yielded results too questionable for use, but since subsequent ascents were already numbered they were not changed.		
No. 135: 11/7/40; 0854; 1725–350g.; 1 AC NE; E 4.0; Sun 6°46′		
35	974	17.7
60	972	11.4
320	938	11.0
540	911	12.8
660	898	11.9
1,100	848	16.0
1,920	759	17.7
2,580	696	21.1
*3,030	654	22.7
3,600	605	25.1
4,400	541	32.7
*5,070	492	37.9
5,580	456	41.5
Data missing		
8,320	298	57.5
8,990	269	58.4
9,910	232	61.0
1020: Sun 5°07′; 3 AC NE; E 5.4 976 mb.		
No. 136: 11/9/40; 0811; 1700–325g.; 10 SC NE; E 1.9; Light snow; Sun 8°41′		
35	985	9.1
100	977	7.0
*190	966	8.2
*450	934	9.9
780	896	12.9
1,570	807	18.8
1,660	798	17.0
1,830	778	17.1
2,000	751	18.4
2,360	725	20.6
2,400	720	20.2
2,640	696	20.6
*2,780	684	22.3
3,160	650	24.9
4,110	569	29.6
4,810	516	33.6
5,880	442	41.3
*6,900	379	48.0
8,260	308	57.5
9,000	273	61.3
No. 136—Continued		
9,460	254	62.1
9,700	244	61.3
9,860	238	61.8
10,400	219	61.6
11,150	193	57.1
12,010	168	55.8
12,350	160	53.1
12,620	153	53.8
12,880	147	51.5
13,070	143	51.9
15,070	106	45.0
15,390	101	42.0
16,800	82	38.7
18,700	62	37.1
20,500	48	34.8
1046: Sun 5°52′; 10 SC W; SE 1.3		
No. 137: 11/10/40; 0835; 1700–325g.; 10 SC W; E 0.9; Sun 8°11′		
35	984	9.8
100	975	11.0
630	910	12.7
*1,060	860	17.0
1,490	810	21.9
*1,530	806	20.8
1,700	789	19.0
*1,870	771	20.2
2,110	746	22.4
2,450	712	24.0
*3,230	639	29.1
3,810	588	33.8
4,380	542	36.6
5,300	474	43.5
*5,650	450	45.3
6,090	422	47.1
6,670	386	51.7
*7,020	364	53.6
7,570	335	55.8
*8,310	297	56.4
*8,720	279	57.5
9,400	252	58.1
9,610	243	57.3
11,100	192	56.1
12,000	167	52.6
12,880	146	51.9
13,390	135	49.0
15,110	104	45.4
*16,700	82	41.0
*17,690	71	38.0
19,750	54	34.0
1108: Sun 5°39′; 10 AC SW; S 0.9		
No. 138: 11/11/40; 0851; 1700–325g.; 10 SC N; N 2.2; Sun 7° 58′		
35	984	7.9
600	914	13.5
800	891	13.5
1,280	836	18.7
1,480	813	16.8
1,710	788	18.7
2,070	752	19.0
2,350	723	20.4
2,650	695	20.4
2,910	669	23.6
3,110	653	24.4
*3,420	624	27.3
*3,700	601	29.4
4,590	529	36.9
*5,140	489	40.1
5,410	472	41.4
5,970	438	45.0
6,300	418	47.9
*7,110	369	51.6
*7,510	347	52.9
8,100	316	56.0
8,200	302	55.6
9,490	256	56.1
9,820	242	55.4
10,110	232	56.0
11,250	194	54.7
12,080	171	51.7
12,960	149	50.4
13,660	134	47.2
*15,400	103	43.5
17,110	80	39.9
17,870	72	37.4
20,500	49	34.9
1056: Sun 5°21′; 5 SC NE; ENE 3.1		
No. 139: 11/12/40; 0836; 1700–325g.; 10 ST S; S 2.7; Sun 8°32′		
35	988	8.8
*270	959	10.0
700	907	12.6
1,210	847	18.3
*1,290	839	15.1
1,330	834	14.1
1,490	817	13.9
1,910	772	16.0
*2,780	687	21.3
3,380	632	24.7
*3,680	606	28.0
4,300	555	32.9
4,620	531	34.3
*5,110	495	38.2
5,630	458	42.0
6,310	414	47.4
*6,770	387	50.2
7,170	364	52.6
7,700	335	54.8
8,000	319	56.9
8,260	306	57.7
8,410	298	56.8
8,980	274	56.6
9,090	269	55.4
9,300	260	56.4
*9,510	252	55.8
*10,610	212	54.0
*11,280	191	53.0
12,580	157	50.3
13,200	142	46.4
14,300	120	42.8
15,310	103	37.6
16,220	91	35.7
1049: Sun 6°17′; 7 ST S; S 3.2. Thermoshield lowered.		
No. 140: 11/13/40; 0821; 1750–375g. 00; S 1.3; Sun 9°25′		
35	980	18.1
220	956	17.9
740	892	12.0
910	873	11.1
1,600	797	13.1
2,000	756	17.3
2,470	711	18.1
3,090	654	23.7
*3,700	602	27.1
*4,070	572	30.0
*5,250	482	37.6
6,390	408	44.1
*7,250	359	49.4
*7,770	331	53.1
*8,480	296	57.2
8,910	276	57.7
9,520	251	55.3
9,790	241	56.0
12,690	154	47.6
16,730	85	33.4
1007: Sun 6°55′; 00; SW 4.1		
No. 141: 11/14/40; 0756; 1700–325g.; 00; ESE 5.8; Ice crystals; Sun 10°32′		
35	975	18.6
310	940	19.6
470	921	16.0
700	893	14.3
1,000	857	13.9
1,400	813	14.9
2,140	737	19.0
2,370	716	19.5
*2,800	673	22.6
3,500	612	27.4
*4,360	543	34.0
4,930	500	37.8
5,820	438	46.2
6,210	413	48.3
6,490	397	48.3
7,200	355	51.8
7,450	341	51.4
7,920	317	52.1
8,580	287	53.8
*9,220	259	53.4
No. 141—Continued		
10,020	229	53.4
10,400	217	51.9
11,820	173	50.0
12,790	150	43.8
1007: Sun 7° 12′; 00; SE 6.7; Short cord used		
No. 142: 11/15/40; 1305; 1800–425g.; 10 AC E; E 7.2; Sun 8°16′		
35	981	10.3
1,100	851	17.5
1,580	798	21.7
1,700	785	20.9
*1,970	758	21.2
2,280	727	22.0
*2,830	673	26.2
3,550	608	32.3
*4,110	562	36.1
4,620	522	39.0
*5,310	458	45.5
6,080	420	49.7
6,330	404	50.0
6,700	381	52.2
*7,000	364	52.3
*7,390	343	53.5
*7,900	316	53.9
8,430	291	54.8
*9,300	254	54.2
10,600	208	53.1
*11,000	195	51.3
12,020	167	47.7
12,580	154	46.7
*13,800	128	42.0
*14,500	115	40.2
16,110	91	35.5
*18,000	70	33.2
21,240	44	29.8
1517: Sun 12°38′; 10 AC E; E 6.7; 3 meter cord		
No. 143: 11/16/40; 1254; 1700–325g.; 2 AC NE; S 4.0; Sun 8°17′		
35	982	16.2
210	960	13.0
490	925	14.3
640	906	13.9
990	866	15.0
1,160	847	16.3
1,430	816	17.0
2,620	695	23.2
*3,720	596	31.0
4,100	565	33.8
4,270	552	34.5
5,310	474	42.1
*6,270	411	50.4
6,700	385	53.9
*7,160	359	54.7
7,790	325	56.0
8,100	309	55.7
8,310	299	56.8
8,490	291	56.3
8,810	277	57.0
9,430	251	55.0
10,380	217	54.2
11,920	170	50.2
13,980	125	42.0
16,390	88	36.0
17,220	78	35.7
18,190	68	33.7
19,280	58	33.9
1523: 1 AC E; S 2.2; 20 m. cord; Sun 13°07′		
No. 144: 11/17/40; 1248; 1675–300g.; 10 SC NW; Calm; Sun 8°25′		
35	985	11.2
60	982	10.7
330	947	11.0
520	924	12.0
600	916	11.9
960	873	15.7
1,320	832	13.6
1,500	812	14.3
*2,870	676	24.0
3,650	606	30.3

*Levels whose omission would leave curves materially unchanged.

TABLE 1.—*Results of radiosonde observations, Little America III, by significant levels*—Continued

Altitude (m.)	Pressure (mb.)	Temperature (−°C.)
No. 144—Continued		
*3,810	593	30.9
4,390	547	33.0
5,270	482	38.4
6,010	432	44.3
6,680	391	47.1
*7,300	355	51.5
*7,550	341	53.1
8,110	313	56.4
8,660	288	57.5
9,280	261	55.4
9,470	253	55.4
9,800	240	53.8
10,170	227	53.6
*11,720	153	44.5
12,090	145	43.9
13,930	128	40.1
*15,070	109	37.9
16,460	89	35.8
17,820	73	36.9
20,330	51	31.9
1503: 10 SC U; N 4.0; Sun 12°32′		
No. 145: 11/18/40; 1253: 1700–325g.; 10 SC NW; Calm; Sun 8°34′		
35	992	10.7
*320	956	12.3
530	929	14.1
780	900	14.8
*1,170	854	17.6
1,520	814	20.2
1,640	801	18.4
*1,850	779	19.0
2,290	734	21.0
2,470	717	22.8
*2,860	679	25.1
3,250	643	28.0
3,700	603	30.1
4,110	570	30.9
4,370	550	33.0
4,790	518	34.7
5,470	469	39.2
6,100	427	44.8
*6,500	402	46.4
*6,810	384	48.4
7,670	337	52.7
8,200	310	53.8
8,800	282	54.1
9,510	252	52.5
10,490	218	47.4
10,660	213	48.0
*11,820	178	44.1
12,750	155	41.0
12,920	151	39.1
*14,580	119	37.3
16,340	92	34.5
18,270	70	33.8
19,100	62	34.7
20,790	49	29.5
21,680	43	29.8
1538: 10 SC NW; SE 1.9; Sun 14°15′		
No. 146: 11/19/40; 1308; 1700–325g.; 10 SC SW; NE 4.9; Light snow; Sun 9°18′		
35	992	8.6
*250	964	10.0
*480	936	11.3
700	909	13.1
*870	890	14.5
*1,040	869	16.0
*1,230	847	17.6
1,660	800	21.0
1,730	792	18.8
1,870	778	18.1
2,260	739	19.7
2,540	710	22.0
3,020	665	24.2
*3,490	624	27.0
*3,830	594	29.2
4,930	508	35.9
5,360	477	37.8
5,630	459	38.2
6,200	421	43.6
7,110	368	48.5
7,800	332	54.6
*8,400	302	56.8
8,510	296	57.4
*8,710	287	56.8
*9,000	274	54.8
*9,400	258	53.6
10,310	224	48.9
12,200	168	45.6
13,640	136	39.1
15,210	108	36.2
16,250	93	36.8
17,220	81	35.0
1521: 10 SC SW; NE 5.4; Light snow; Sun 13°45′		
No. 147: 11/20/40; 1317; 1700–325g. 10 SC W; NE 5.4; Sun 9°46′		
35	989	10.2
70	985	12.0
380	946	9.0
590	919	11.5
1,280	840	16.2
1,500	814	16.4
1,650	800	15.5
*1,920	770	17.8
2,200	740	20.0
3,160	651	24.2
*3,800	595	29.7
*4,160	566	31.4
4,810	517	36.1
5,400	474	38.5
*6,160	424	43.9
*6,700	390	48.2
7,520	343	53.1
7,700	334	52.3
8,090	316	55.1
8,490	295	55.3
9,470	255	50.1
*10,370	223	47.7
*10,870	206	45.3
11,880	177	42.4
*13,120	147	37.1
13,630	137	36.1
*16,100	96	35.7
*17,190	82	34.5
17,820	75	35.3
19,400	60	31.1
20,380	53	31.0
1554: 1 SC W; NE 3.6; Sun 15°30′		
No. 148: 11/21/40; 1334; 1725–350g.; 10 ST W; W 5.4; Sun 9°52′		
35	993	12.6
120	980	14.8
930	881	17.8
1,150	856	20.2
*1,210	849	16.1
1,260	844	14.5
*1,320	836	13.2
1,380	829	13.1
1,680	797	14.9
2,330	731	21.6
2,700	695	22.6
3,480	625	29.4
4,970	506	38.4
5,490	469	40.2
6,070	431	41.1
*6,570	399	43.1
7,560	342	46.0
*8,000	320	48.3
8,530	280	51.0
9,260	262	50.6
*11,230	195	44.8
12,640	158	39.5
*13,480	140	38.9
15,710	101	38.5
16,900	85	35.8
18,250	70	36.9
18,760	65	34.9
1554: 10 SC W; WSW 7.6; Sun 15°43′		
No. 149: 11/22/40; 1405; 1700–325g.; 10 SC NW; SE 5.4; Sun 11°30′		
35	983	14.7
*310	947	15.8
640	906	17.9
780	890	15.4
*890	865	15.9
*1,680	788	18.3
2,230	732	19.8
3,040	655	23.4
3,860	586	28.8
4,380	544	31.0
*4,720	518	33.6
5,030	495	35.7
5,540	461	36.3
*6,080	426	40.2
*6,420	405	43.6
7,080	367	47.6
7,380	351	47.6
8,210	308	50.0
8,620	289	49.7
8,880	279	50.0
10,320	224	47.3
*11,450	189	43.5
*12,080	172	42.4
14,710	117	35.2
15,900	99	36.2
18,820	65	34.2
1623: 10 SC NW; SE 5.8; Sun 17°20′		
No. 150: 11/24/40; 1243; 1700–325g.; 10 SC W; Calm; Sun 9°55′		
35	978	13.9
*90	970	14.0
330	940	15.9
460	924	15.9
*660	900	13.9
820	880	12.9
*1,230	834	16.0
*1,470	809	16.9
1,870	766	20.3
2,190	734	19.3
2,800	676	25.7
3,360	625	27.3
3,990	572	31.5
5,120	486	35.0
*5,810	440	40.1
6,600	392	46.3
*7,280	354	50.4
7,810	326	52.8
8,070	313	53.6
8,400	297	51.6
9,100	267	45.1
10,340	222	38.3
11,020	200	36.9
*13,070	150	35.9
*13,630	139	35.6
14,350	108	35.2
17,030	85	33.8
1448: 10 SC W; E 0.9; Sun 13°34′		
No. 151: 11/25/40; 1843; 1700–325g., F AS CU U; E 2.7; Sun 24°49′		
35	979	13.9
100	970	13.9
200	956	15.2
450	926	13.8
610	906	10.7
*1,180	842	14.4
*1,300	828	15.7
1,450	812	16.0
*2,040	749	20.8
2,530	701	23.9
3,180	642	30.2
3,490	614	30.4
4,190	556	33.6
4,670	519	37.0
5,080	489	38.7
*5,800	440	43.6
6,510	395	47.0
7,430	345	48.0
8,100	311	47.3
*9,170	265	44.0
9,740	243	43.0
12,280	168	34.1
13,330	144	32.3
15,940	100	31.3
18,900	66	28.1
2056: 6 AC SE; E 3.1; Sun 26°47′		
No. 152: 11/28/40; 1918; 1700–325g., 8 FC N; N 3.1; Sun 27°01′		
35	972	4.4
170	955	5.0
*560	910	8.3
1,350	819	15.5
1,910	759	19.0
2,310	714	22.5
3,540	606	34.8
4,110	558	37.7
4,550	532	35.0
5,090	484	36.0
*6,280	408	40.5
7,670	333	44.3
7,900	321	44.2
*9,500	252	40.1
10,780	210	35.4
*12,680	160	35.6
13,700	138	34.8
*14,200	128	35.5
15,730	103	36.1
*17,750	69	31.1
20,860	50	27.0
2137: 1 AS N, 1 SC NW; NW 4.5; Wind and snow abated 1830; Sun 31°47′		
No. 153: 11/29/40; 1840; 1700–325g.; 10 ST U; W 2.2; Sun 25°26′.		
35	983	10.6
*100	974	11.2
480	927	14.4
620	910	12.0
720	898	11.8
820	887	12.6
990	868	12.6
1,150	850	13.9
1,400	821	14.6
*1,840	774	17.8
2,800	680	24.0
*3,160	648	27.8
3,620	606	31.3
*3,380	545	35.1
*4,700	519	37.2
5,110	489	38.9
*5,610	455	42.1
6,050	426	44.8
6,590	393	46.0
7,280	355	46.6
8,260	306	44.7
8,870	280	41.1
9,360	260	40.7
*10,730	213	37.0
11,470	191	33.8
*12,360	169	33.8
13,870	136	34.6
*15,800	103	32.1
18,650	69	29.3
2054: 10 SC W; SW 3.6; Sun 30°50′		
No. 154: 11/30/40; 1244; 1575–125g.; 8 AC SW; W 1.3; Sun 11°03′		
35	989	8.0
*490	932	13.0
*670	910	14.2
1,030	867	17.7
1,610	802	18.7
2,480	713	24.6
2,660	696	26.8
*2,820	680	27.7
3,710	608	30.9
4,600	528	38.2
5,140	487	39.7
*6,230	415	46.3
6,590	394	48.4
7,480	345	49.2
7,940	321	51.6
*8,360	300	51.4
8,920	277	50.6
*9,730	244	47.0
10,020	234	44.7
11,050	199	43.0
11,450	189	43.6
12,770	155	38.1
13,670	136	36.2
1453: 3 AC NW; N 0.9; Sun 14°56′		
No. 155: 12/6/40; 1348; 1675–300g.; 10 SC E; E 5.4; Sun 13°33′		
35	986	2.9
140	973	3.0
500	930	6.6
610	916	6.8
*1,020	868	9.3
1,300	839	11.2
2,010	763	14.3
*2,160	750	15.2
2,480	717	18.0
2,780	688	19.2
*3,100	660	21.8
3,910	589	29.4
4,090	575	26.3
4,170	569	26.3
*4,480	544	27.9
4,830	518	30.1
5,420	477	34.9
*6,020	438	39.0
6,980	382	45.0
7,230	367	48.4
*8,120	319	54.6
8,590	296	57.2
8,800	286	57.7
*9,870	242	51.4
10,800	211	47.6
*13,870	133	41.4
16,400	92	36.8
*17,340	80	36.2
19,230	61	33.8
1603: 10 SC E; E 4.5; Sun 18°55′		
No. 156: 12/7/40; 1416; 1650–275g.; 1 CI N, 1 AC SE; SE 3.1; Sun 14°35′		
35	991	4.7
190	973	1.8
730	907	2.0
*1,000	878	4.3
1,310	844	7.2
1,790	794	9.2
2,740	699	16.2
3,410	640	18.4
3,890	599	21.0
*4,600	543	26.5
5,520	477	33.0
*6,200	428	39.2
7,500	357	50.3
*8,120	325	54.4
9,080	279	61.7
9,870	246	54.4
10,800	214	51.0
*11,520	191	47.0
*12,300	170	44.3
*12,830	157	42.0
14,200	128	37.6
*15,640	104	36.0
17,280	82	35.8
18,300	71	33.4
1659: 1 AS N?; S 2.7; Sun 18°12′		
No. 157: 12/8/40; 1244; 1650–275 g.; F CI NW; SSW 2.7; Sun 12°14′		
35	990	10.2
100	983	5.6
*370	949	3.7
500	934	2.3
900	888	4.8
1,340	838	6.0
1,810	789	11.0
2,370	735	15.9
3,040	671	16.1
*3,560	627	20.1
3,810	604	22.8
4,000	588	23.0
4,590	544	26.1
4,920	519	29.6
5,330	490	32.5
*6,060	442	38.9
6,830	395	45.2
*7,440	360	49.4
7,900	335	51.9
*8,380	311	55.9
8,900	286	59.8
9,000	281	59.8
*9,510	259	55.9

*Levels whose omission would leave curves materially unchanged.

TABLE 1.—*Results of radiosonde observations, Little America III, by significant levels*—Continued

Altitude (m.)	Pressure (mb.)	Temperature (−°C.)
No. 157—Continued		
*9,600	255	55.4
10,110	236	50.8
*11,880	181	43.0
13,570	141	37.7
*14,400	125	36.8
17,700	78	32.2
1521: 00; S 2.2; Sun 14°59′		
No. 158: 12/9/40; 1405; 1750–400 g.; 2 CI NW; SSW 2.2; Sun 14°31′		
35	989	12.2
330	952	7.4
480	935	6.9
850	890	7.4
1,270	845	8.9
1,410	828	10.9
1,770	790	11.9
2,820	687	19.2
3,120	660	19.2
*3,960	589	25.3
4,490	547	30.0
*4,800	523	31.9
5,760	457	38.2
*6,170	430	40.4
6,730	396	44.5
*7,800	336	53.0
8,520	300	59.1
8,980	280	61.1
9,300	265	59.6
9,520	257	57.1
*10,500	220	51.2
11,990	175	44.3
13,970	131	39.3
16,330	93	35.7
16,890	86	36.3
18,620	69	35.3
19,500	59	32.1
20,110	54	32.0
1629: 00; S 2.2; Sun 20°38′		
No. 159: 12/10/40; 1404; 1600–250 g.; 8 CI NW; SSW 2.3; Sun 14°37′		
35	990	13.1
80	983	15.2
110	977	11.3
370	948	8.0
1,310	838	11.2
1,580	808	11.0
2,500	716	16.1
2,700	697	16.3
3,700	610	22.9
4,380	556	28.9
*4,710	530	30.6
*5,300	488	34.4
5,820	453	37.3
*6,400	415	42.2
*7,430	356	49.3
7,680	344	51.3
*7,850	334	52.2
*8,040	324	54.3
8,360	309	56.3
8,800	288	58.0
9,310	266	55.1
10,480	222	45.3
10,790	212	44.0
1619: 10 CS NW; SW 1.8; Ascension rate very slow above 11 km. with temperature indications above 0° C.; Sun 20°17′		
No. 160: 12/11/40; 1301; 1700–350 g.; 10 CS NW; E 5.4; Sun 12° 55′		
35	992	13.5
*90	985	12.8
150	977	10.0
320	956	8.0
580	926	8.3
1,030	871	10.9
*1,420	828	12.0
1,660	803	13.0
*1,960	773	14.6
*2,150	754	14.9
2,600	709	16.8
3,510	627	22.6
*4,020	585	26.5
4,490	549	30.3
4,860	521	31.6
5,210	495	34.7
*5,480	477	35.5
*5,790	456	37.1
6,140	432	37.7
*6,610	403	41.4
*7,070	377	45.3
7,720	339	50.2
8,340	310	51.1
Data missing		
9,010	279	51.0
10,770	215	45.6
*11,480	193	44.7
13,220	148	43.2
15,020	114	40.0
1449: 9 AC NW; E 5.4; Sun 16°21′		
No. 161: 12/12/40; 1338; 1700–350g.; 4 CS NW; SSW 2.2; Sun 13°59′		
35	998	12.4
80	992	13.7
*110	988	11.6
260	969	7.6
530	937	9.0
780	906	9.0
*1,090	870	10.6
*1,490	826	12.7
1,960	777	14.4
2,580	715	18.1
2,780	696	18.2
3,550	627	22.1
3,860	602	21.1
4,200	574	21.3
*4,810	522	24.8
5,820	460	29.0
*6,390	425	33.3
6,990	390	37.8
*7,400	367	41.0
*8,460	311	49.9
9,290	274	56.0
9,640	259	57.9
9,760	254	57.3
9,980	246	53.5
*10,610	224	50.6
11,400	198	45.6
*12,820	160	44.3
14,300	128	43.6
*15,890	102	40.3
17,880	76	37.0
1555: 2 CS NW; S 2.2; Sun 19°22′		
No. 162: 12/13/40; 1356; 1800–450g.; 10 ST S; E 0.9; Sun 14°38′		
35	996	10.2
80	990	14.3
270	966	14.9
410	949	10.2
520	935	8.6
980	883	6.7
*1,430	831	8.9
2,370	736	15.0
2,810	692	16.4
3,490	633	20.3
Data missing		
5,180	502	29.0
5,580	474	32.6
Data missing		
6,930	390	40.6
7,300	370	42.8
Data missing		
8,410	312	50.8
9,050	283	53.5
Data missing		
9,500	263	52.7
10,720	218	46.6
11,200	202	45.9
Data missing		
12,780	161	44.4
*13,250	150	44.0
14,220	129	44.0
15,810	102	42.0
16,690	90	39.5
*17,850	76	37.5
19,040	64	35.4
1616: 10 ST S; E 2.2; Sun 20°26		
No. 163: 12/14/40; 1247; 1725–375g.; 1 AC W; SE 5.8; Sun 12°52′		
35	993	14.4
*120	982	11.5
410	945	7.1
1,100	866	8.0
*1,370	836	9.2
2,150	756	12.2
2,480	723	15.4
*3,120	664	17.6
4,190	574	23.0
5,100	505	30.4
5,300	492	30.0
6,210	432	34.2
6,670	405	38.8
*7,110	380	41.8
*7,740	346	45.6
9,030	283	53.2
9,640	258	52.3
9,920	247	48.9
*10,430	229	48.0
12,460	169	44.0
*14,470	125	42.6
15,590	106	42.6
16,040	99	40.3
17,630	79	37.4
19,740	58	35.3
1500: F AC U; ESE 7.2; Sun 17°7′		
No. 164: 12/15/40; 1450; 1750–400g.; 10 AC NW; SE 3.6; Sun 16°45′		
35	996	10.8
200	976	11.8
*270	967	10.6
620	924	7.7
810	902	7.0
*1,200	858	9.1
*1,470	829	10.7
2,700	703	17.9
*3,010	674	19.0
3,390	641	20.0
3,900	597	22.4
*4,290	567	25.9
4,960	517	32.2
5,300	492	32.3
5,970	448	36.9
6,500	414	39.0
*7,000	386	43.6
7,460	360	47.6
*7,900	336	50.7
*8,390	312	53.2
8,650	299	54.3
8,970	285	54.0
9,610	257	48.7
10,000	244	48.0
10,310	232	45.6
10,900	212	45.2
11,200	202	43.9
12,370	170	42.6
12,820	159	43.0
13,730	139	42.1
14,980	116	39.0
18,170	73	35.7
1544: 7 AC NW; SE 2.7; Sun 19°5′		
No. 165: 12/16/40; 1240; 1600–250g.; 8 AC SW; S 2.2; Sun 12° 49′		
35	995	14.6
160	980	12.0
260	968	12.0
530	933	5.2
690	915	6.9
*940	886	7.4
1,330	841	8.0
1,660	808	11.1
2,240	747	14.2
2,570	715	14.7
3,460	635	20.7
4,030	586	26.8
4,180	575	25.8
5,400	485	34.0
*6,370	422	40.1
7,000	384	43.3
*7,380	363	46.0
7,790	341	49.1
8,530	304	52.6
*8,790	293	52.5
9,230	273	51.0
*9,590	259	47.9
10,160	238	44.3
*10,920	212	42.9
12,020	180	41.2
*13,450	146	41.0
15,200	113	40.0
*17,740	78	34.4
19,020	65	30.7
1543: 7 AC SW; ESE 4.9; Sun 19° 6′		
No. 166: 12/17/40; 1245; 1675–325g.; 8 CI, AC NE; S 2.2; Sun 13° 00′		
35	997	13.6
*150	982	12.3
*240	969	10.6
430	947	9.0
820	900	8.7
*1,390	836	11.7
1,990	773	14.6
2,740	698	20.5
3,080	668	20.9
*4,050	584	28.1
5,320	488	37.0
5,480	477	36.7
6,120	433	41.9
6,890	386	46.5
7,160	371	46.5
8,180	317	50.9
8,380	307	50.5
8,720	291	50.5
*9,120	274	48.4
*9,250	269	48.1
9,600	255	46.1
*9,830	246	45.5
10,350	228	43.1
11,410	195	41.9
12,250	172	41.8
14,310	127	39.6
15,420	108	39.6
16,980	86	37.5
18,500	69	37.0
20,890	49	32.8
1613: 3 CI NE; SW 3.6; Sun 20° 37′		
No. 167: 12/18/40; 1247; 1700–350g.; F CS SW; S 4.5; Sun 13° 3′		
35	1,002	11.9
*100	994	9.3
200	982	7.0
390	957	6.0
*790	907	8.8
*1,360	842	12.3
1,820	793	14.8
2,180	757	17.5
2,920	685	20.0
*3,450	639	24.1
4,090	586	29.0
4,480	554	30.4
*5,190	500	34.8
5,710	464	38.4
1336: F CS SW; SSW 4.5; Sun 14° 19′		
No. 168: 12/19/40; 1246; 1700–350g.; 10 SC NW; NE 4.0; Light snow; Sun 13° 0′		
35	1,001	4.4
Data missing		
440	951	5.3
640	927	5.3
1,540	824	14.0
2,210	754	18.3
2,500	724	16.9
3,020	676	19.0
*3,710	617	23.0
4,420	559	28.0
5,600	473	31.2
6,260	431	36.4
*7,470	361	43.1
8,380	315	47.8
8,800	294	52.0
9,330	271	53.7
9,840	251	52.8
10,920	213	47.2
11,400	198	47.2
11,870	182	44.3
*13,350	148	43.0
15,870	102	40.6
1431: 10 SC NE; NE 4.5; Sun 16° 15′		
No. 169: 12/20/40; 1242; 1700–350g.; 10 SC NE; E 5.4; Light snow; Sun 13°3′.		
35	997	6.1
200	977	3.2
510	940	4.0
930	892	8.3
*1,250	855	10.6
1,490	828	11.7
1,680	808	13.7
1,910	783	14.0
2,020	772	15.2
*2,330	742	14.9
2,680	706	15.0
*3,560	629	19.5
4,200	577	23.3
4,790	533	25.3
*5,760	465	32.9
6,370	426	37.1
6,790	400	41.6
*7,820	341	48.3
8,890	291	53.2
9,500	264	52.7
*10,480	228	48.7
11,300	207	46.2
13,100	153	43.0
14,630	122	42.5
*15,670	105	40.9
18,250	72	38.2
1436: 10 SC NE; E 6.3; Light snow; Sun 16°28′		
No. 170: 12/21/40; 1245; 1675–325g.; 10 NS N; N 4.5; Moderate snow; Sun 13°8′.		
35	991	1.3
570	927	4.8
*690	911	6.3
930	884	8.0
1,630	808	10.3
2,370	734	15.3
2,700	701	17.0
*3,340	644	21.6
3,790	605	25.1
4,480	550	31.6
*5,180	498	36.0
5,490	476	37.8
*5,650	464	39.1
6,160	431	42.0
6,320	420	41.0
6 830	391	41.0
7,440	356	41.9
8,260	316	44.6
1334: 10 NS N; N 4.1; Moderate snow; Sun 14°22′		
No. 171: 12/22/40; 0048; 1675–325g.; 10 ST U; SW 3.6; Sun 33°34′		
35	992	+3.7
90	984	+1.0
320	957	−2.2
730	909	5.4
1,170	860	8.0
1,420	832	8.9
1,660	807	10.7
1,870	785	10.7
*2,280	744	13.0
3,070	670	17.8
*3,560	627	21.0
4,380	560	26.9
4,570	545	27.3
*4,970	516	31.2
5,320	490	34.2
5,680	466	36.2
6,290	426	41.3
6,630	406	42.6

*Levels whose omission would leave curves materially unchanged.

TABLE 1.—*Results of radiosonde observations, Little America III, by significant levels*—Continued

Altitude (m.)	Pressure (mb.)	Temperature (−°C.)
No. 171—Continued		
6,940	387	42.0
*7,400	362	43.2
*8,100	326	46.0
8,320	315	46.4
*9,080	281	44.7
*9,530	262	43.1
9,680	257	43.0
*9,950	246	41.7
10,270	235	40.9
*11,320	201	40.7
12,100	180	40.1
14,170	133	40.2
17,650	80	36.7
22,170	42	31.8
0258: 10 SC W; SW 4.5; Sun 28°48′		
No. 172: 12/22/40; 1245; 1800–425g.; (713g. balloon).; 10 ST U; SE 2.7; Sun 13°8′		
35	997	4.6
*220	974	5.1
420	949	5.6
800	903	8.5
930	890	8.1
1,190	861	11.1
1,280	851	10.1
1,470	830	11.9
1,750	799	12.3
2,290	745	15.2
2,610	712	17.9
*3,080	670	19.0
3,560	628	20.9
*3,820	605	23.4
*4,020	589	24.4
4,170	578	25.5
4,530	550	26.6
5,550	476	33.2
5,940	450	34.7
*6,460	417	37.8
*7,310	368	42.7
7,980	333	45.4
8,680	300	50.3
9,200	277	52.8
*9,500	264	50.6
10,310	234	45.2
11,310	201	41.9
*12,420	171	41.1
13,360	149	40.4
15,980	101	39.9
*18,720	68	36.8
22,250	41	34.3
30,350	13	32.0
33,750	8	29.5
1509: 10 ST U; S 5.8; Sun 17°52′		
No. 173: 12/23/40; 1254; 1700–350g. F CI, AC W; SW 3.6; Sun 13°21′		
35	998	13.3
Data missing		
770	907	12.9
*1,150	862	16.8
1,380	836	18.9
2,110	757	21.1
2,260	743	20.3
*2,430	725	21.8
2,730	696	23.7
3,180	655	25.3
*3,540	624	27.8
3,880	594	29.2
*4,660	532	34.7
5,120	496	37.8
*5,310	483	38.4
5,630	462	40.2
*6,400	411	46.5
6,970	377	50.7
*7,500	347	51.6
7,690	337	51.6
*8,500	297	48.6
9,030	274	45.8
*9,720	247	44.3
10,780	212	42.7
11,180	200	43.1
12,600	162	40.6
14,730	118	40.2
18,740	66	37.7
1512: 4 AC SW; WSW 1.4; Sun 18°1′		
No. 174: 12/25/40; 1304; 1700–350g.; 10 AC N; NE 3.6; Sun 13°36′		
35	1003	4.6
370	962	7.8
1,070	876	12.0
1,500	826	14.9
1,770	798	18.0
2,380	735	19.6
3,180	660	23.9
3,460	636	24.6
*3,860	601	26.8
*4,140	577	29.1
4,830	523	33.8
*5,380	483	36.9
6,100	435	41.0
*6,510	410	42.3
7,130	375	44.0
*8,760	294	45.7
9,290	272	46.0
9,970	245	44.8
10,780	217	44.9
11,510	195	42.7
12,150	177	44.4
13,460	145	41.7
14,300	128	41.2
1438: 10 AC N; E 3.6; Sun 16°39′		
No. 175: 12/27/40; 1245; 1700–350g.; 10 ST N; NE 0.9; Sun 13°6′		
35	980	−0.1
90	973	+1.4
*400	936	−1.8
580	906	4.0
*960	874	5.3
1,470	817	8.8
*2,210	741	11.3
3,190	653	14.6
3,990	586	19.7
4,470	549	21.6
*5,330	487	28.0
*5,900	450	31.6
6,180	433	33.6
6,380	421	34.0
*6,840	394	37.2
7,000	384	39.0
7,520	356	41.6
7,980	333	45.7
8,680	300	41.6
9,420	269	41.0
9,800	255	39.1
10,370	235	37.7
11,410	201	40.0
12,790	164	40.3
15,280	114	38.7
20,500	54	34.3
26,450	23	32.3
31,080	12	30.0
1430: 10 ST N; NE 1.4; Sun 16°18′		
No. 176: 12/29/40; 1300; 1700–350g.; 10 AC, FS S; SSW 3.6; Sun; 13°23		
35	976	1.0
180	959	0.6
690	899	3.8
*1,120	850	5.9
1,400	820	6.7
1,880	771	10.0
*2,360	725	11.5
*2,680	696	13.2
3,190	650	15.0
*3,670	610	18.0
*4,040	579	20.7
*4,380	554	23.0
5,130	499	27.6
*5,900	449	34.7
*6,380	418	38.7
*7,460	355	47.2
7,920	332	50.5
*8,690	295	45.3
9,400	267	41.9
9,880	248	41.6
10,490	227	38.9
11,980	183	37.1
*13,290	151	37.6
16,340	94	37.7
1456; 10 AS S; S 3.1; Sun 17°17′		
No. 177: 12/31/40; 1332; 1700–350g.; 10 ST NE; N 0.9; Light snow; Sun 14°9′		
35	984	1.1
80	977	2.6
270	956	1.1
820	892	7.0
*1,390	828	10.2
2,130	750	15.4
2,600	705	16.9
3,210	650	21.7
3,320	641	20.9
*3,750	604	24.1
*4,300	560	28.4
*4,760	526	31.7
5,330	484	35.8
6,050	436	39.6
6,500	409	43.6
*6,760	393	45.2
*7,090	375	46.6
7,550	349	48.8
8,600	297	45.2
8,890	285	45.7
9,120	275	45.0
9,320	267	43.3
10,060	239	43.1
*10,840	213	40.8
*11,400	196	40.7
*11,800	184	39.9
12,300	171	39.9
12,700	162	38.2
13,960	135	37.4
1531: 10 ST NE; NE 4.0; Light snow; Sun 18°45′		
No. 178: 1/1/41; 1322; 1725–375g.; 10 SC N; NNW 4.0; Light sleet; Sun 13°47′		
35	984	1.5
90	977	1.4
440	934	3.5
1,190	849	9.1
1,380	828	8.3
*1,650	800	10.4
*2,570	708	16.1
2,700	696	17.5
3,000	669	18.4
*3,500	625	23.4
3,870	595	27.4
*4,050	580	26.7
4,220	566	26.7
4,590	538	29.4
5,290	488	33.0
6,740	394	43.6
*7,180	370	45.8
7,800	336	49.4
8,280	312	49.4
9,020	278	45.5
9,830	246	43.7
12,580	164	40.6
13,320	147	40.6
13,770	138	39.0
15,580	106	39.0
15,810	102	38.1
16,780	89	38.4
19,160	63	37.8
23,050	36	36.1
23,860	32	34.8
26,480	22	36.0
29,130	15	35.0
1535: 10 SC N; N 4.5; Sun 18°5′		
No. 179: 1/3/41; 1416; 1750–375g.; 3 CI NE; E 5.4; Sun 15°23′		
35	989	8.0
140	976	3.2
*300	956	2.6
*570	924	4.3
*1,150	859	8.0
1,720	797	11.4
2,380	730	16.8
2,790	692	17.6
*3,280	648	20.2
*3,600	620	22.3
3,900	596	24.2
4,500	549	28.7
4,980	513	31.3
5,380	484	35.2
*5,950	445	39.0
No. 179—Continued		
6,510	409	43.4
6,880	388	45.7
*7,380	359	49.7
7,810	336	52.6
*8,030	324	53.8
8,480	302	55.3
8,700	292	55.2
*8,990	280	52.7
*9,280	268	51.6
9,750	249	47.9
11,080	204	42.6
11,700	186	42.7
11,970	179	41.4
*13,680	139	39.7
*14,970	115	39.1
17,040	85	36.7
*17,810	75	36.7
*18,290	71	36.0
18,890	65	36.0
20,480	52	33.0
1617:3 CS NE; E 4.9; Sun 20°38′		
No. 180: 1/4/41; 1300; 1725–350g.; 10 ST SE; SE 4.0; Sun 12°57′		
35	986	3.6
80	980	6.6
470	933	8.7
1,020	868	8.3
1,630	803	10.1
*2,070	758	13.2
2,720	695	17.8
*3,220	650	20.0
3,560	622	21.0
3,840	598	22.9
*4,580	540	29.3
5,030	506	33.6
5,440	478	35.6
6,030	438	39.7
6,400	415	43.1
*7,010	377	48.2
*7,600	344	53.0
7,890	330	55.1
8,130	318	55.8
8,340	308	54.5
8,470	302	55.0
*9,340	264	47.7
9,800	246	44.8
11,030	205	41.4
*12,190	173	39.8
13,200	149	38.2
13,950	134	38.2
14,200	129	36.1
14,700	120	37.1
15,220	111	36.8
15,690	104	35.4
18,580	69	33.1
19,570	60	29.4
1542: 10 ST U; SE 4.5; Sun 18°57′		
No. 181: 1/5/41; 1400; 1725–350g.; 10 NS SE; SE 4.0; Sun 14°42′		
35	985	7.1
190	966	10.6
400	938	11.0
610	913	13.4
700	903	8.7
860	885	8.1
*1,300	836	9.8
2,180	746	13.3
3,260	645	20.7
3,710	606	23.0
4,920	512	31.6
*5,420	477	34.8
6,010	438	38.1
6,330	418	39.0
*7,200	368	45.4
7,750	339	50.2
8,310	310	53.6
8,690	293	56.9
9,100	274	57.7
9,720	248	50.8
10,150	233	48.8
10,430	223	45.0
12,120	171	41.0
No. 181—Continued		
13,200	148	41.1
14,500	122	38.4
17,090	84	37.0
18,650	67	37.1
20,560	51	34.5
1611: 10 NS SE; SE 2.2; Sun 20°17′		
No. 182: 1/6/41; 1343; 1700–325g.; 10 ST SE; SW 1.4; Sun 14°03′		
35	985	4.1
100	977	6.7
230	960	7.0
*380	942	8.7
970	875	14.0
*1,020	868	11.8
1,160	852	10.4
1,590	805	11.6
2,160	748	14.1
*2,980	670	18.8
3,910	588	25.0
*4,380	552	28.9
4,960	509	33.1
*5,300	485	35.1
*5,680	460	37.1
6,150	430	39.3
*6,510	406	42.3
*7,190	367	47.2
*7,630	343	50.8
8,580	296	57.7
8,810	285	57.0
9,310	263	50.4
*9,600	251	48.0
10,270	228	44.3
*11,000	204	42.7
12,520	163	39.6
13,380	144	39.9
15,160	111	37.6
16,620	90	36.5
18,390	70	32.1
1614: 10 ST SE; SW 2.7; Sun 20°22′		
No. 183: 1/8/41; 1243; 1200–350g.; Wet battery; 10 ST W; SW 4.0; Sun 12°10′		
35	972	5.9
160	957	8.0
300	939	8.7
*700	892	12.1
1,270	828	17.5
1,720	779	20.2
2,010	750	17.1
2,360	716	17.8
2,820	672	20.6
3,320	627	24.8
3,810	587	26.7
4,730	515	32.7
5,980	436	40.7
*6,300	410	42.0
*6,680	388	44.1
6,910	373	44.8
7,360	349	43.9
8,050	314	48.6
8,600	291	49.4
9,700	246	42.7
*10,670	214	41.3
*11,040	202	41.2
13,070	150	39.1
1358: 10 AC SW; SW 5.4; Sun 14°20′		
No. 184: 1/9/41; 1333; 1175–325g.; Wet battery; 10 ST S; SE 2.2; Sun 13°23′		
25	966	8.5
240	940	12.2
490	910	14.6
610	895	12.8
1,200	829	13.9
1,520	794	13.7
1,800	765	14.6
2,460	702	18.8
*2,910	660	22.5
3,460	612	26.8

*Levels whose omission would leave curves materially unchanged.

TABLE 1.—*Results of radiosonde observations, Little America III, by significant levels*—Continued

Altitude (m.)	Pressure (mb.)	Temperature (−°C.)
No. 184—Continued		
*4,160	555	30.9
4,930	497	35.5
5,870	434	41.9
*6,290	408	43.7
6,900	373	45.3
7,990	317	45.4
8,310	302	44.7
Data missing		
9,730	245	39.3
10,140	231	38.5
1435: 10 ST S; SE 1.9; Sun 21°01′		
No. 185: 1/10/41; 1324; 1725–350g.; Released 75 feet W of bldg.; 10 ST N; E 6.7; Sun 12°58′		
35	976	12.1
80	970	13.2
230	950	9.6
460	924	8.1
820	880	9.9
*1,280	830	12.6
1,860	769	16.6
2,000	755	16.0
2,510	704	18.7
*2,990	660	21.8
3,500	615	24.9
4,080	569	27.1
4,590	529	30.8
5,190	487	33.6
*5,670	454	37.5
6,300	414	41.8
6,860	381	45.5
7,200	362	45.6
7,820	329	48.2
8,320	305	47.8
8,770	286	48.3
9,300	263	43.1
9,600	252	42.0
9,920	240	43.0
10,390	224	41.6
*11,530	189	41.2
*12,180	172	40.3
12,590	162	40.9
13,450	143	38.9
14,760	118	39.2
*16,530	91	36.8
*17,440	80	36.5
19,320	61	34.3
1536: 10 ST U; E 5.8; Sun 18°6′		
No. 186: 1/11/41; 1350; 1175–325g; Wet battery; 9 AC NE; S 2.2; Sun 13°41′		
35	990	9.2
210	966	4.0
610	918	5.0
1,030	870	8.4
1,420	828	9.5
2,160	753	15.9
2,470	727	14.8
*2,640	705	16.0
3,510	628	22.6
3,800	604	23.7
5,070	506	31.7
5,580	470	35.4
6,190	431	38.5
7,180	371	46.9
1440: 8 AC NE; S 1.8; Sun 15°34′		
No. 187: 1/12/41; 1427; 1200–325g.; Wet battery; F CI U; SW 3.1; Sun 14°53′		
35	997	11.9
250	970	5.2
440	947	3.8
*770	910	6.0
1,050	878	9.0
1,690	806	10.5
2,500	724	14.6
*3,100	668	16.3
3,370	646	16.6
*3,670	621	17.9
*3,930	598	19.7
4,360	565	21.3
5,500	482	29.0
5,940	454	30.2
6,370	427	33.8
6,750	404	35.4
8,280	323	46.3
9,380	277	52.3
9,650	267	53.0
1530: 00; W 2.2; Sun 17°48′		
No. 188: 1/13/41; 1411; 1700–325g.; 10 ST U; S 0.9; Sun 14°9′		
35	997	5.6
*220	973	6.9
500	940	9.0
*970	885	9.7
1,270	852	10.7
1,380	839	9.3
1,660	810	10.8
*2,560	718	14.1
3,550	630	18.0
*4,000	593	20.1
4,580	548	23.7
4,910	523	24.6
5,520	481	29.5
6,310	431	33.7
*6,880	397	37.7
7,460	365	40.8
*8,280	323	47.4
8,900	293	52.0
9,510	267	54.3
*10,170	245	51.5
11,020	212	46.0
11,680	192	45.8
13,060	156	43.1
13,930	137	42.6
1550: 10 ST U; S 2.2; Sun 18°23′		
No. 189: 1/14/11; 1924; 1700–325g.; 00; S 4.5; Delayed by wind; Sun 28°29′		
35	986	9.7
200	955	12.7
670	908	13.9
800	891	9.6
990	872	7.7
1,690	796	7.1
2,600	705	10.4
*2,950	676	12.0
3,320	643	14.2
3,630	616	16.7
*4,180	574	19.1
4,880	522	22.3
5,460	482	27.3
5,820	458	28.7
*6,410	421	33.0
7,080	383	37.5
*7,900	339	43.8
8,680	303	49.3
*9,110	283	51.9
9,860	252	54.3
10,000	246	54.2
10,600	225	49.0
12,300	174	41.5
12,970	157	41.5
15,000	117	37.7
16,340	96	37.7
17,500	81	33.6
20,660	52	32.9
2208: 00; ESE 8.0; Sun 32°47′		
No. 190: 1/15/41; 1441; 1725–350g.; 00; SE 6.3; Sun 14°59′		
35	977	12.2
60	973	12.9
*240	950	9.0
450	926	5.4
780	888	6.7
970	867	9.5
1,230	836	8.0
*1,540	804	9.1
* 2,040	754	12.0
2,700	692	12.7
3,180	649	14.7
*4,260	563	20.2
5,070	504	24.8
*5,480	475	28.3
*6,030	439	32.1
6,590	405	36.3
7,340	363	40.6
8,270	322	47.2
9,400	265	55.2
*9,620	256	54.3
9,810	249	53.2
*10,000	243	51.0
10,200	235	49.0
12,360	170	41.2
12,900	157	41.0
1620: 3 CI SW; SE 7.2; Sun 18°54′		

*Levels whose omission would leave curves materially unchanged.

STANDARD ELEVATIONS

TABLE 2.—*Results of radiosonde observations, Little America III, at standard elevations*

[Free-air pressures and temperatures, Period 1: April 25 to May 8, 1940]

Elev. meters m. s. l.		No.	1	2	3	4	5	6	7	8	9	10	11		12	13	14	Mean
		GMT	0254	0240	2101	2040	2050	2111	2052	2050	2047	2103	2122		2226	2045	2016	
		Date	4/25	4/26	4/26	4/27	4/28	4/29	4/30	5/1	5/2	5/3	5/4	5/5	5/6	5/7	5/8	
19,000	mb							52							53			50
	−C°							65.2							64.3			65.3
18,000	mb					62		62							62			59
	−C°					66.1		65.0							63.0			64.6
17,000	mb	77				73		73							74			71
	−C°	57.8				65.2		64.8							61.9			63.8
16,000	mb	90				86		86							86			84
	−C°	56.9				64.5		63.4							59.8			62.6
15,000	mb	106				101		101		100	99				101			99
	−C°	56.0				63.6		62.1		61.6	59.0				58.7			61.5
14,000	mb	124				119		119		117	116				119			116
	−C°	56.0				62.3		60.8		59.7	58.7				57.1			60.4
13,000	mb	144	142			139	139	140		137	136	140	140		139			137
	−C°	57.0	54.9			61.1	60.9	59.8		58.8	58.3	57.9	58.2		53.0			59.4
12,000	mb	170	166	166		164	164	164	161	160	160	164	164		163			161
	−C°	60.4	54.2	59.0		60.0	59.2	58.6	56.0	57.3	59.0	57.4	57.5		52.0			58.9
11,000	mb	200	194	192		193	192	192	189	189	188	192	192		189			189
	−C°	63.0	56.8	59.4		61.3	57.9	57.7	56.3	56.9	60.0	57.5	58.3		51.2			59.4
10,000	mb	234	226	226		228	226	226	222	222	221	226	226		222			223
	−C°	62.8	51.7	57.0		63.6	57.7	57.4	56.0	61.2	64.2	59.1	61.9		50.3			59.9
9,000	mb	275	264	266		267	264	264	258	260	260	264	265		257			261
	−C°	57.7	54.1	M		65.3	58.3	56.6	57.0	62.4	61.9	60.9	62.6		50.3			59.8
8,000	mb	323	308	311		313	311	308	302	304	304	311	312		300			306
	−C°	50.1	55.1	58.6		62.7	62.0	57.0	55.6	58.2	55.6	58.0	52.7		53.0			57.4
7,000	mb	376	360	364		368	365	362	354	357	356	363	364		351			359
	−C°	43.0	51.5	52.1		54.3	58.0	55.3	53.7	49.7	49.3	51.8	49.8		53.8			52.7
6,000	mb	435	420	424		429	426	422	414	414	413	422	422		410			418
	−C°	36.9	45.2	45.7		45.5	50.1	50.4	51.4	42.7	44.3	44.7	42.5		49.3			46.5
5,000	mb	499	487	492		498	496	492	482	479	480	489	489		478			486
	−C°	31.1	40.1	39.8		36.6	41.8	43.5	44.5	39.5	40.4	37.3	36.0		45.3			40.5
4,000	mb	573	562	570		575	573	569	558	554	556	566	563		554	544	546	562
	−C°	25.5	32.9	35.4		30.7	35.4	35.3	37.2	35.2	36.0	33.2	30.9		41.5	44.5	42.8	34.9
3,000	mb	658	646	656		660	660	657	645	639	639	651	647		640	634	632	647
	−C°	20.6	25.0	27.8		24.5	27.1	27.8	31.4	29.0	29.8	29.8	27.0		37.4	40.3	38.4	29.2
2,500	mb	703	692	703		706	707	703	689	686	686	698	694		688	680	680	692
	−C°	17.2	220.0	24.1		20.3	23.7	24.6	27.3	26.1	28.0	27.7	26.3		35.8	37.9	35.1	26.3
2,000	mb	752	741	753		756	758	751	738	735	736	750	744		739	734	730	744
	−C°	14.9	19.0	22.1		17.9	20.2	22.0	24.2	23.2	26.0	23.7	23.7		33.8	37.1	32.2	23.7
1,500	mb	802	792	805		808	809	804	790	786	790	802	794		794	788	783	796
	−C°	14.8	16.9	19.0		15.2	17.3	19.7	21.4	21.0	24.0	22.3	22.1		31.8	36.3	30.6	21.8
1,000	mb	858	846	861		862	866	860	847	843	844	859	853		852	847	841	853
	−C°	13.6	14.9	15.6		12.3	M	20.4	19.9	20.0	26.6	21.7	23.0		32.4	34.0	37.2	21.5
500	mb	918	904	920		921	926	920	904	901	905	920	916		915	909	904	913
	−C°	17.8	22.0	13.8		11.4	M	18.3	22.3	22.8	33.9	28.4	27.9		31.2	32.8	37.7	23.7
Sfc.	mb	978	964	978		982	986	980	965	964	970	984	977		977	972	967	975
	−C°	30.7	26.7	17.2		26.2	20.9	17.9	26.2	43.1	34.1	44.0	33.9		50.0	47.2	43.7	33.0

[Free-air pressures and temperatures, Period 2: May 9 to 22, 1940]

Elev. meters m. s. l.		No.	(W)	15	(W)	16	17	(T)	18	(W)	(W)	19	(W)	20	21	22	Mean
		GMT		2114		1927	1958		2125			2240		2135	2142	2139	
		Date	5/9	5/10	5/11	5/12	5/13	5/14	5/15	5/16	5/17	5/18	5/19	5/20	5/21	5/22	
18,000	mb											62					61
	−C°											74.2					72.6
17,000	mb					68	72					73					72
	−C°					70.4	69.3					72.4					70.8
16,000	mb					80	85					85					85
	−C°					68.4	66.9					70.2					68.6
15,000	mb			95		95	100					102					100
	−C°			67.6		66.3	65.2					68.0					66.6
14,000	mb			113		112	118					120			114		118
	−C°			65.7		64.1	64.0					65.6			64.1		64.7
13,000	mb			133		131	139					142			134		138
	−C°			63.5		63.2	62.7					63.4			61.8		62.9
12,000	mb			156		154	163					166			157	157	162
	−C°			61.3		60.8	61.2					61.1			59.5	60.9	60.8
11,000	mb			184		182	191					195			186	185	190
	−C°			59.0		60.8	61.4					58.3			58.0	60.8	59.7
10,000	mb			215		214	225					229			216	217	222
	−C°			57.2		60.1	64.3					57.5			58.2	60.0	59.5
9,000	mb			251		251	264					268			253	254	260
	−C°			59.5		62.5	65.2					57.0			58.0	62.7	60.8
8,000	mb			296		296	312					313			297	298	305
	−C°			60.0		61.7	61.8					55.6			59.0	61.4	59.9
7,000	mb			348		346	365					368		360	348	352	358
	−C°			59.1		60.6	57.2					52.8		55.2	57.1	60.8	57.9
6,000	mb			407		408	428					428		420	408	411	418
	−C°			56.1		55.7	50.2					48.3		47.5	53.4	54.9	52.7
5,000	mb			476		476	497					496		488	476	481	486
	−C°			51.4		49.4	42.3					39.7		40.3	49.8	49.7	46.5
4,000	mb			555		553	576					570		563	553	559	564
	−C°			46.2		42.2	36.4					30.0		35.6	42.6	41.8	39.6
3,000	mb			643		640	664					656		648	639	647	650
	−C°			39.9		34.6	30.4					21.0		31.6	37.8	35.4	33.4
2,500	mb			692		688	712		713			702		694	687	692	698
	−C°			37.4		32.9	28.8		33.0			17.0		30.4	35.2	33.0	31.0
2,000	mb			744		738	763		764			751		746	738	745	749
	−C°			35.0		31.7	25.6		32.7			14.1		28.7	34.0	32.6	29.3
1,500	mb			799		793	813		818			803		800	794	798	802
	−C°			33.0		30.7	23.2		30.1			11.0		25.8	30.6	29.2	26.7
1,000	mb			858		856	875		879			857		858	852	857	862
	−C°			32.0		32.1	24.3		28.7			8.7		28.6	29.9	25.8	26.3
500	mb			921		925	938		943			913		919	914	919	924
	−C°			31.8		36.6	32.0		29.8			6.8		23.6	25.6	24.6	26.4
Sfc.	mb			984		990	1,003		1,007			969		979	973	980	986
	−C°			58.0		37.1	37.3		49.6			11.3		19.0	29.7	38.5	35.1

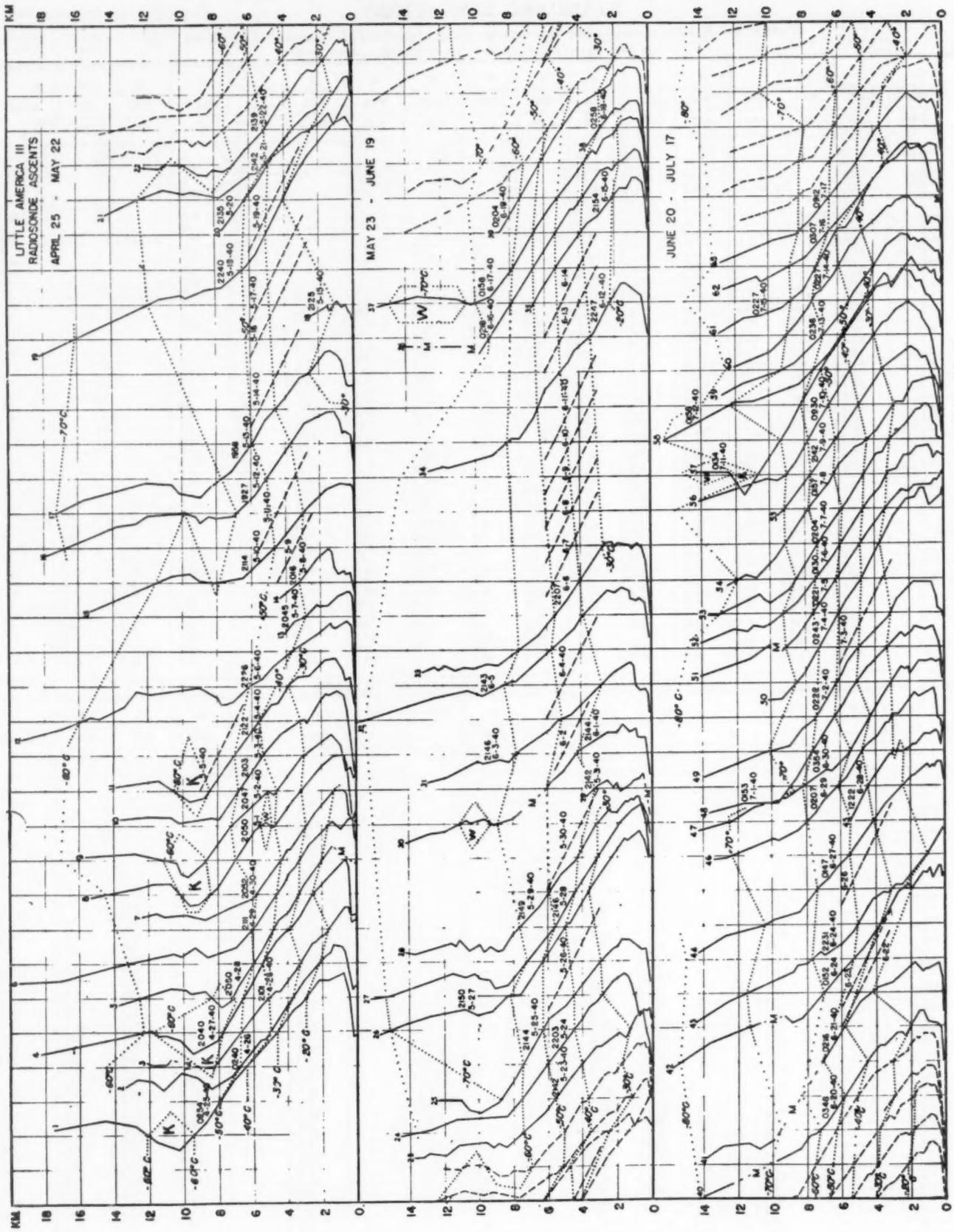

FIGURE 1a.—Temperature-height diagrams for individual radiosonde ascents, April 25 to July 17.

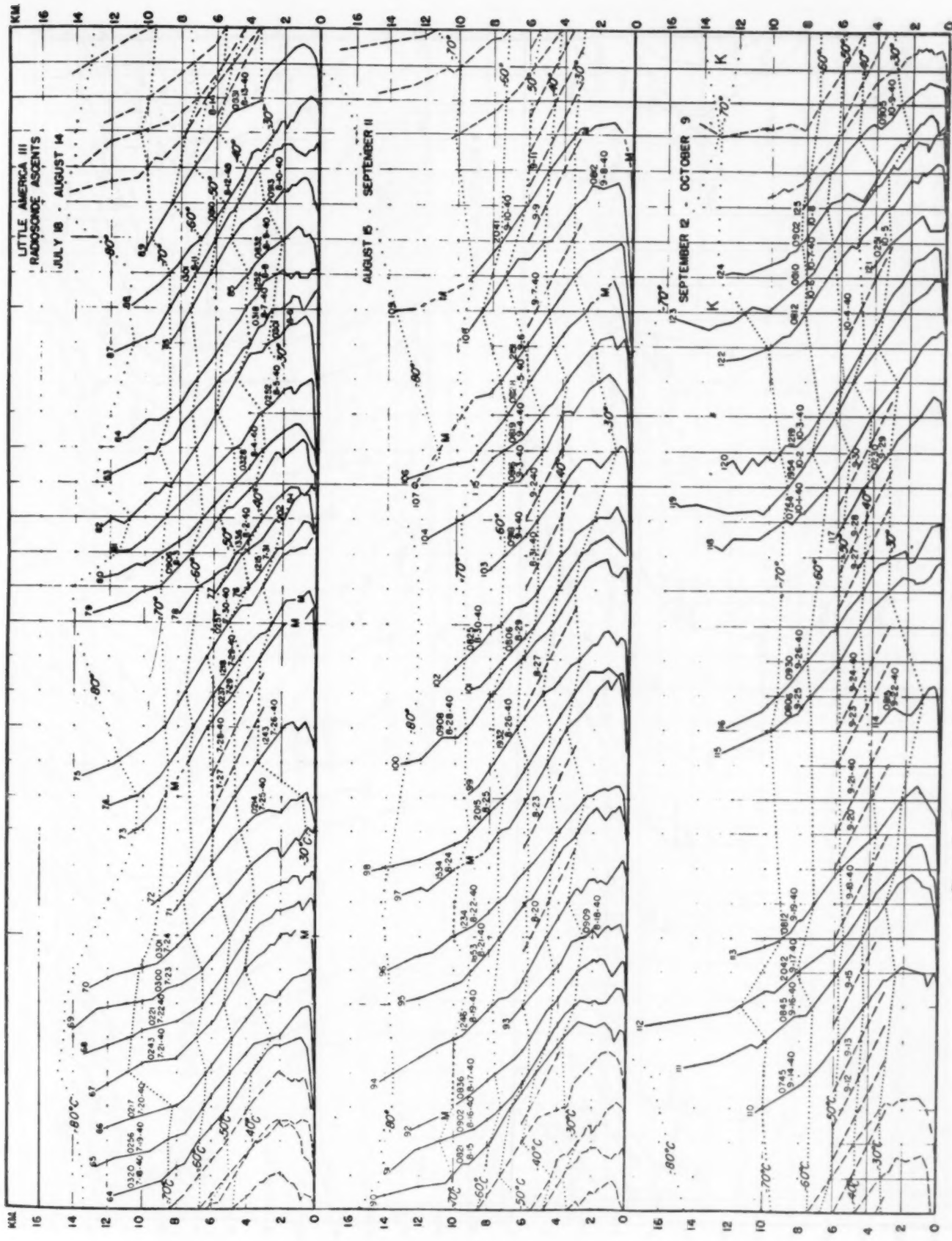

FIGURE 1b.—Temperature-height diagrams for individual radiosonde ascents, July 18 to October 9.

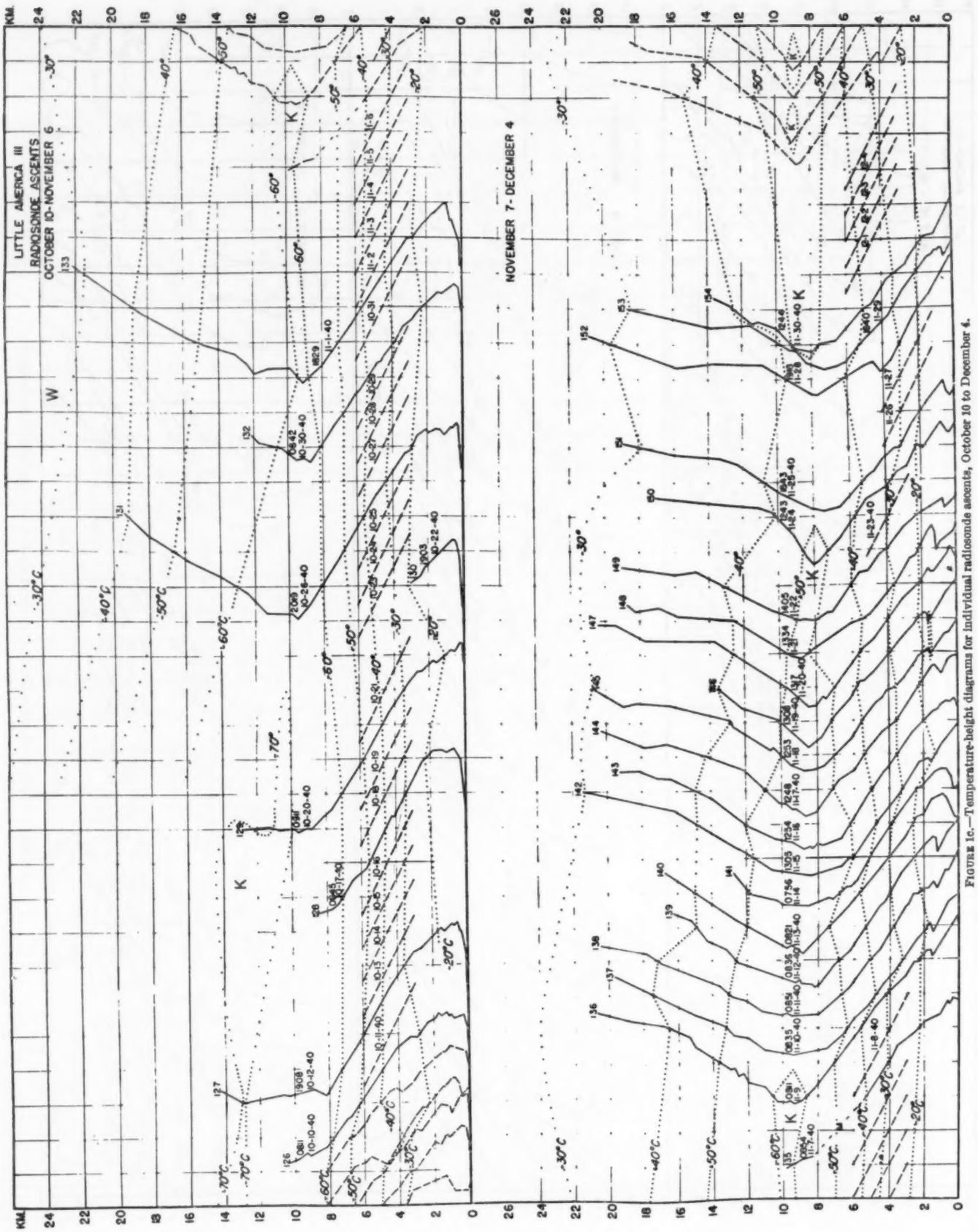

FIGURE 1c.—Temperature-height diagrams for individual radiosonde ascents, October 10 to December 4.

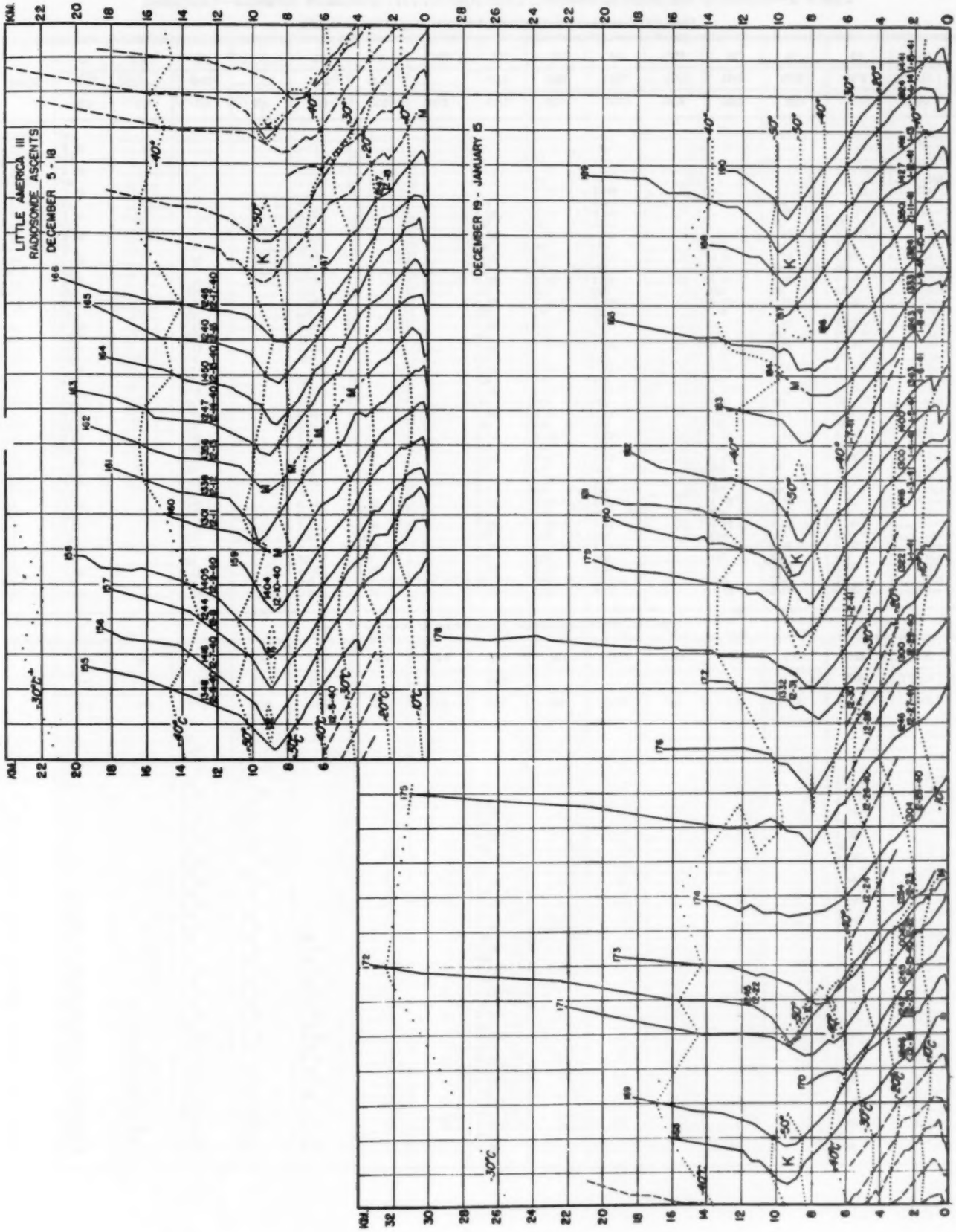

FIGURE 1d.—Temperature-height diagrams for individual radiosonde ascents, December 5 to January 15.

FIGURE 1c.—Temperature-height diagrams for individual radiosonde ascents, October 10 to December 5.

TABLE 2.—*Results of radiosonde observations, Little America III, at standard elevations*—Continued

[Free-air pressures and temperatures, Period 3: May 23 to June 5, 1940]

Elev. meters m. s. l.		No.	23	24	25	(W)	26	27	28	(W)	29	30		31	(W)	32	Mean
		GMT.	2142	2203	2144		2150	2146	2149		2142	2144		2146		2143	
		Date.	5/23	5/24	5/25	5/26	5/27	5/28	5/29	5/30	5/31	6/1	6/2	6/3	6/4	6/5	
17,000	mb.															69	66
	−C°															70.8	73.2
16,000	mb.							81								81	78
	−C°							70.7								69.2	71.6
15,000	mb.						97	97								96	94
	−C°						69.7	69.9								67.8	70.5
14,000	mb.			114			115	115	114			116				114	112
	−C°			70.3			68.0	67.8	67.5			65.2				66.1	68.7
13,000	mb.		134	134			135	134	134			136				134	132
	−C°		66.6	69.4			66.1	66.2	66.9			63.3				64.5	67.3
12,000	mb.		158	159	157		160	159	160			160		154		158	156
	−C°		66.7	67.7	70.6		65.0	64.4	65.2			62.3		66.9		63.0	66.0
11,000	mb.		186	188	186		188	188	187			188		182		186	184
	−C°		63.6	66.2	70.7		64.2	64.3	63.9			60.0		64.6		62.0	64.8
10,000	mb.		219	222	220		222	222	221			221		215		218	218
	−C°		63.1	66.1	74.0		65.7	64.9	65.6			59.1		62.2		62.3	65.2
9,000	mb.		258	261	261		261	261	261			259		251		255	257
	−C°		63.8	65.6	71.8		63.8	68.0	66.8			60.2		61.6		62.0	65.2
8,000	mb.		303	308	309		306	307	306			304		295		301	302
	−C°		62.7	63.3	65.3		60.1	65.3	62.5			58.7		61.2		58.8	62.4
7,000	mb.		357	362	364		359	362	360			356		346		351	355
	−C°		57.9	57.1	56.5		55.7	58.9	57.3			M		57.3		56.7	57.7
6,000	mb.		417	423	426		421	424	421			415		407		414	417
	−C°		53.1	50.1	47.4		47.9	52.8	51.6			50.2		53.8		52.4	51.7
5,000	mb.		487	492	494		489	491	490			484		474		482	485
	−C°		46.2	43.8	43.6		40.2	45.3	44.5			44.9		49.7		47.7	45.8
4,000	mb.		566	569	571		564	569	569			560		551		559	562
	−C°		40.0	37.2	37.4		33.6	37.3	37.6			39.1		45.8		41.2	39.4
3,000	mb.		652	658	658		649	657	658		631	648		640		646	650
	−C°		34.7	31.6	31.0		25.6	29.8	30.3		39.4	36.0		41.0		36.3	33.6
2,500	mb.		701	705	706		695	704	704		678	695		688		694	697
	−C°		33.2	28.1	28.3		22.0	25.8	27.6		38.0	34.1		39.0		34.1	31.0
2,000	mb.		751	756	758		744	753	755		730	748		740		746	748
	−C°		31.7	25.4	26.1		18.4	21.8	27.0		38.9	34.0		36.7		33.7	29.4
1,500	mb.		807	810	812		794	805	808		785	803		794		800	802
	−C°		32.7	24.2	24.1		14.8	18.7	24.1		40.4	32.1		34.9		32.4	27.8
1,000	mb.		866	869	870		849	862	867		845	862		855		860	860
	−C°		27.8	29.6	25.3		14.3	16.3	23.6		38.3	33.5		34.3		34.9	27.8
500	mb.		929	933	933		906	921	928		909	925		920		923	923
	−C°		25.3	34.8	26.9		14.0	15.1	26.2		36.5	35.4		41.6		35.8	29.2
Sfc.	mb.		991	997	995		966	980	990		973	990		985		988	986
	−C°		39.3	37.2	37.1		19.8	23.0	39.8		47.9	46.3		48.1		46.6	38.5

[Free-air pressures and temperatures, Period 4: June 6 to 19, 1940]

Elev. meters m. s. l.		No.	33	(W)	(W)	(W)	(T)	(W)	34	(W)	(W)	35	36	37	38	39	Mean
		GMT.	2207						2247			2154	0218	0158	0258	0204	
		Date.	6/6	6/7	6/8	6/9	6/10	6/11	6/12	6/13	6/14	6/15	6/16	6/17	6/18	6/19	
15,000	mb.													98			96
	−C°													69.8			70.7
14,000	mb.												114	116			114
	−C°												72.3	67.5			68.4
13,000	mb.		132										135	135			134
	−C°		65.8										M	67.9			68.8
12,000	mb.		159						162				161	163			162
	−C°		65.0						66.9				72.3	68.1			68.5
11,000	mb.		187						191				189	194			190
	−C°		65.1						66.4				72.3	68.5			68.5
10,000	mb.		220						225				225	226			224
	−C°		65.0						65.0				M	69.8			68.4
9,000	mb.		259						264				266	266			264
	−C°		64.2						63.7				68.8	67.3			66.9
8,000	mb.		304						311				314	314		310	311
	−C°		62.0						59.0				60.9	61.0		65.2	61.6
7,000	mb.		358						364				368	368		364	365
	−C°		57.7						55.3				53.0	52.9		56.4	55.1
6,000	mb.		418						427			429	429	428		428	426
	−C°		52.8						47.3			44.7	45.1	45.1		47.8	47.6
5,000	mb.		489						494			497	496	496		495	494
	−C°		47.5						39.9			37.1	37.4	38.8		39.8	40.6
4,000	mb.		567						571			573	573	572		571	571
	−C°		40.5						32.8			30.8	31.8	32.0		33.1	34.0
3,000	mb.		653						657			658	658	658	657	658	657
	−C°		32.5						27.2			25.5	24.0	26.9	31.1	28.3	27.9
2,500	mb.		702						704			705	704	705	704	704	704
	−C°		29.0						22.3			22.3	21.6	23.0	28.1	25.3	24.5
2,000	mb.		752						754			754	754	757	754	754	754
	−C°		30.1						18.3			19.2	21.4	21.3	24.8	24.7	22.8
1,500	mb.		808						805			807	806	808	808	808	807
	−C°		29.4						14.5			17.1	19.0	17.7	24.0	23.1	20.7
1,000	mb.		867						861			863	862	865	866	865	864
	−C°		30.7						15.8			14.8	16.9	16.6	21.9	22.1	19.8
500	mb.		931						919			922	920	924	928	926	924
	−C°		30.0						17.7			14.6	16.5	18.1	22.8	23.9	20.5
Sfc.	mb.		994						979			981	982	984	989	990	986
	−C°		49.6						28.9			29.9	32.0	35.0	45.0	49.5	38.6

TABLE 2.—*Results of radiosonde observations, Little America III, at standard elevations*—Continued

[Free-air pressures and temperatures, Period 5: June 20 to July 3, 1940]

Elev. meters m. s. l.		No.	40	41	(W)	(W)	42	43	(W)	(W)	44	45	46	47	48	49	(W)	Mean
		GMT.	0348	0216			0152	2231			0147	1222	0207	0354	0153	0222		
		Date..	6/20	6/21	6/22	6/23	6/24	6/24	6/25	6/26	6/27	6/28	6/29	6/30	7/1	7/2	7/3	
15,000	mb						91											94
	−C°						79.5											79.0
14,000	mb						108	108			110			112				111
	−C°						76.0	77.4			77.4			72.5				75.5
13,000	mb	131	134				128	128			130		134	133	131	133		131
	−C°	77.4	75.4				73.3	74.3			74.4		70.7	71.2	76.7	75.0		73.0
12,000	mb	156	160				150	151			155		158	156	156	158		156
	−C°	74.9	74.5				71.3	71.7			72.3		69.4	69.1	75.5	71.9		71.0
11,000	mb	185	190				179	179			184		188	185	186	188		185
	−C°	M	75.1				69.3	69.0			71.0		67.5	66.0	75.0	70.0		69.4
10,000	mb	229	226				212	212			218		222	217	220	220		220
	−C°	69.5	73.5				M	66.8			69.0		65.5	64.7	74.9	69.0		68.0
9,000	mb	258	267				250	250			256		260	256	260	260		257
	−C°	67.2	M				67.6	64.5			67.2		64.4	62.9	71.0	68.0		66.0
8,000	mb	304	314				296	294			302		306	301	308	307		304
	−C°	63.0	M				66.5	61.3			64.2		60.8	59.5	63.7	62.5		62.0
7,000	mb	358	367				347	347			356		359	354	360	360		356
	−C°	59.1	49.3				60.4	58.6			58.1		54.7	56.2	55.5	56.8		56.8
6,000	mb	418	426				408	405			415		419	413	420	420		416
	−C°	52.1	41.5				54.0	55.9			52.5		49.8	53.3	47.3	48.5		50.8
5,000	mb	487	493				476	473			485	485	489	482	488	489		485
	−C°	44.3	33.1				48.8	49.0			46.7	46.0	42.6	46.7	39.7	40.2		43.7
4,000	mb	566	567				552	550			552	562	564	558	564	566		560
	−C°	36.9	29.3				42.2	42.4			39.5	37.2	36.4	37.7	33.8	34.9		37.0
3,000	mb	653	651				639	636			649	648	650	643	649	650		647
	−C°	33.0	27.1				33.7	39.8			32.8	30.6	30.1	29.4	28.5	28.5		31.4
2,500	mb	699	698				687	685			697	694	699	690	695	699		694
	−C°	31.7	24.8				30.5	38.7			30.0	30.3	28.5	25.5	26.0	24.8		29.1
2,000	mb	751	747				736	735			747	745	749	739	747	748		744
	−C°	30.0	22.7				28.7	36.7			27.7	29.2	25.2	26.3	25.8	22.4		27.5
1,500	mb	805	800				789	793			801	799	802	792	800	800		798
	−C°	25.6	22.7				27.1	33.7			26.0	27.6	24.0	23.9	24.3	21.2		25.6
1,000	mb	864	857				847	850			859	858	860	849	857	857		856
	−C°	27.8	23.5				25.2	30.2			23.9	25.0	23.0	23.8	24.4	21.1		24.8
500	mb	925	918				907	910			919	918	920	908	917	917		916
	−C°	28.9	22.6				25.4	26.2			24.2	24.2	23.0	24.1	24.8	24.3		24.8
Sfc.	mb	988	978				966	971			980	978	981	968	979	978		977
	−C°	40.0	35.7				25.1	22.0			28.2	22.5	32.2	28.8	35.6	31.0		30.1

[Free-air pressures and temperatures, Period 6: July 4 to 17, 1940]

Elev. meters m. s. l.		No.	50	51	52	53	54	55	56	57	58	59	60	61	62	63	Mean
		GMT.	0243	0221	0130	0204	0157	2142	0930	0134	0158	0236	0227	0227	0307	0912	
		Date..	7/4	7/5	7/6	7/7	7/8	7/9	7/10	7/11	7/12	7/13	7/14	7/15	7/16	7/17	
16,000	mb										79						76
	−C°										79.3						84.2
15,000	mb										94						91
	−C°										76.8						81.7
14,000	mb				109				114	114	112						109
	−C°				78.3				77.3	79.2	74.4						79.3
13,000	mb			131	130	128			135	136	132			129			130
	−C°			76.2	76.3	80.1			75.8	79.2	71.7			79.3			77.8
12,000	mb			156	155	153	154		160	162	156	152	154	154	147	146	155
	−C°			74.5	74.8	78.0	81.0		74.4	82.1	69.1	75.0	78.8	76.5	75.3	77.4	76.5
11,000	mb			186	185	182	184		190	194	185	182	183	183	174	174	184
	−C°			72.7	73.8	75.6	79.4		72.7	82.5	68.7	72.8	76.7	74.7	73.3	75.3	74.9
10,000	mb	221	220	219	216	220			226	230	218	215	218	217	206	208	218
	−C°	74.9	69.5	72.8	76.8	75.4			71.4	74.7	67.0	71.4	74.6	73.3	73.3	73.1	72.9
9,000	mb	261	260	258	256	259	261	268	272	257	253	257	256	244	244	258	
	−C°	72.5	69.5	68.9	73.8	68.8	68.8	69.8	66.8	65.3	69.4	69.9	70.8	70.6	71.5	69.8	
8,000	mb	309	307	305	303	305	308	316	320	302	298	303	303	288	290	304	
	−C°	66.6	63.5	64.2	66.5	61.5	62.3	61.9	58.3	63.0	65.5	63.8	67.0	67.8	68.3	64.3	
7,000	mb	363	360	359	358	358	360	370	375	356	352	356	357	342	343	358	
	−C°	57.9	56.3	57.4	58.5	55.0	55.5	53.7	50.0	57.8	60.5	56.8	57.5	62.3	62.9	57.3	
6,000	mb	426	422	420	416	418	422	432	436	416	414	418	418	401	402	419	
	−C°	49.3	48.7	50.4	51.2	47.0	48.3	45.5	41.2	50.9	54.6	49.8	49.2	56.7	56.8	50.0	
5,000	mb	495	489	488	484	486	490	498	504	486	483	486	485	469	470	487	
	−C°	42.0	41.0	43.3	43.4	41.8	41.1	37.5	33.3	43.5	46.8	42.6	43.7	51.0	50.3	43.0	
4,000	mb	571	564	564	562	563	566	576	580	562	560	562	561	546	546	563	
	−C°	33.0	34.0	35.9	35.2	38.1	33.5	30.3	27.2	36.5	40.3	37.2	35.3	44.8	42.3	36.0	
3,000	mb	657	650	648	648	649	652	662	666	649	647	648	646	632	631	649	
	−C°	23.4	27.4	28.4	29.4	31.0	27.6	24.7	24.7	35.3	33.5	32.8	28.4	39.7	35.5	30.1	
2,500	mb	703	697	696	694	696	698	708	712	696	694	696	692	679	678	696	
	−C°	19.5	24.8	26.0	27.2	29.1	25.7	22.0	22.4	32.9	31.3	30.7	25.4	37.9	32.6	27.7	
2,000	mb	752	747	746	744	746	750	758	763	746	745	747	742	730	728	746	
	−C°	17.1	24.9	24.1	24.4	26.4	24.3	20.5	21.3	28.9	30.9	30.0	24.8	35.3	30.1	25.9	
1,500	mb	804	799	800	796	799	802	811	817	800	799	802	796	784	780	799	
	−C°	15.3	23.2	22.3	21.3	23.4	24.3	22.6	24.5	29.5	32.5	32.4	25.7	34.7	32.0	26.0	
1,000	mb	860	857	857	853	855	860	870	877	858	858	862	853	842	839	857	
	−C°	16.0	23.0	21.8	19.8	22.7	26.2	26.9	27.3	30.5	32.5	34.7	28.0	25.4	32.4	26.9	
500	mb	919	917	916	914	915	922	933	940	919	922	925	914	906	901	919	
	−C°	18.0	21.4	24.5	25.3	21.8	33.5	33.2	30.4	31.4	34.8	36.5	35.6	34.7	32.8	29.6	
Sfc.	mb	977	976	976	974	977	986	999	1,003	984	986	990	979	970	963	981	
	−C°	13.9	17.9	24.5	30.0	38.0	40.8	45.2	36.6	32.3	45.4	40.0	43.0	52.5	46.9	36.2	

TABLE 2.—*Results of radiosonde observations, Little America III, at standard elevations*—Continued

[Free-air pressures and temperatures, Period 7: July 18 to 31, 1940]

Elev. meters m. s. l.		No.	64	65	66	67	68	69	70	71	72	(W)	(W)	73	74	75	76	Mean
		GMT.	0320	0256	0217	0243	0221	0300	0301	0214	1243			0237	1218	0257	1215	
		Date.	7/18	7/19	7/20	7/21	7/22	7/23	7/24	7/25	7/26	7/27	7/28	7/29	7/29	7/30	7/31	
14,000	mb							108										107
	−C°							77.9										82.8
13,000	mb						128	129	130							130		128
	−C°						74.6	73.9	75.5							83.6		78.8
12,000	mb			144	146	152	151	154	154							156		152
	−C°			76.6	76.6	74.0	72.7	71.6	73.2							81.7		76.7
11,000	mb		173	172	173	179	180	182	182						180	186		180
	−C°		75.4	75.1	74.5	71.2	70.8	70.7	71.3						81.4	78.9		74.7
10,000	mb		206	204	206	214	212	215	216					217	214	222		214
	−C°		74.1	74.1	73.0	68.0	68.3	69.8	69.9					78.9	79.0	75.7		72.8
9,000	mb		244	242	244	252	252	254	256		258			258	254	262		253
	−C°		72.5	71.8	71.5	66.2	66.9	67.5	68.5		70.3			73.3	74.8	71.7		70.2
8,000	mb		290	286	290	297	296	298	302	310	305			304	302	312		299
	−C°		68.4	69.0	69.8	63.6	65.7	65.0	63.8	62.8	66.0			M	67.5	64.3		66.3
7,000	mb		342	338	340	348	348	352	354	361	359			358	356	366		352
	−C°		62.8	65.2	65.2	59.9	62.9	62.3	58.6	56.1	59.5			58.1	59.8	56.1		61.1
6,000	mb		402	396	401	408	410	414	415	424	420			420	417	426		413
	−C°		56.7	58.0	57.8	56.0	57.6	57.3	53.0	50.7	51.3			48.8	51.7	47.8		54.4
5,000	mb		470	466	470	477	480	484	484	492	490			488	485	494		482
	−C°		50.4	51.3	51.4	48.7	50.2	51.2	48.7	43.8	43.2			42.6	45.1	40.1		47.8
4,000	mb		546	543	546	553	557	562	563	570	566			564	562	572	556	558
	−C°		42.8	45.1	45.5	40.3	42.2	44.3	42.3	38.6	35.3			35.7	37.8	34.8	39.7	40.9
3,000	mb		632	630	634	640	644	653	654	650	651			649	648	658	642	646
	−C°		35.8	41.1	38.7	35.7	36.5	38.4	37.5	34.7	28.2			29.2	33.1	28.8	33.2	35.3
2,500	mb		678	676	681	687	692	702	702	708	699			696	695	705	688	693
	−C°		33.2	40.3	38.1	33.2	35.3	36.7	35.4	34.5	24.7			25.7	29.8	24.8	30.1	33.0
2,000	mb		728	728	732	738	744	754	754	760	747			746	746	756	739	744
	−C°		32.4	39.6	37.4	31.0	33.3	35.6	37.3	34.8	21.2			22.2	25.4	21.1	28.0	31.3
1,500	mb		782	784	786	792	797	808	810	816	799			799	798	808	792	798
	−C°		31.6	36.5	34.3	30.1	32.3	34.6	35.1	31.8	19.2			M	23.7	19.0	25.8	29.4
1,000	mb		840	842	846	850	857	870	870	876	856			856	855	864	848	856
	−C°		30.7	33.3	32.4	M	31.2	33.2	32.7	30.7	20.7			M	M	18.5	22.3	27.9
500	mb		900	903	906	910	920	934	933	940	914			913	915	923	907	917
	−C°		32.4	31.2	31.5	M	31.2	33.3	29.7	29.3	19.3			18.2	21.0	17.4	20.6	27.0
Sfc.	mb		964	965	968	973	982	997	997	1003	975			972	976	983	967	979
	−C°		31.5	30.4	36.5	40.8	33.0	34.1	27.6	37.2	23.2			27.4	25.8	15.4	20.2	32.6

[Free-air pressures and temperatures, Period 8: August 1 to 14, 1940]

Elev. meters m. s. l.		No.	77	78	79	80	81	82	83	84	85	86	87	88	89	(W)	Mean
		GMT.	1102	1336	0906	0328	0252	0301	0318	1252	0832	0913	1301	0810	0831		
		Date.	8/1	8/2	8/3	8/4	8/5	8/6	8/7	8/8	8/9	8/10	8/11	8/12	8/13	8/14	
13,000	mb				127												122
	−C°				77.5												80.8
12,000	mb				150	146		148	150								151
	−C°				76.3	77.0		81.1	77.9								79.6
11,000	mb				180	174	172	178	179	180			180				180
	−C°				74.6	75.0	79.7	81.1	75.6	76.9			81.0				78.2
10,000	mb				214	206	205	212	213	214			214	215	226		214
	−C°				71.3	73.5	76.8	76.3	72.6	72.7			78.9	76.2	73.7		75.0
9,000	mb				252	244	242	252	252	253			254	254	267		252
	−C°				69.5	70.5	71.5	72.0	69.2	71.6			73.8	72.0	64.8		70.9
8,000	mb				297	289	288	298	296	298		302	302	300	314		298
	−C°				64.9	67.3	66.7	67.3	64.7	67.5		65.8	64.8	66.3	56.0		65.4
7,000	mb			346	350	341	339	348	348	352		355	354	355	366		351
	−C°			61.3	59.3	62.5	61.7	59.9	58.6	60.2		57.2	59.4	60.7	48.0		59.1
6,000	mb			404	410	399	397	410	408	414		416	415	416	426		411
	−C°			57.2	52.8	56.8	56.7	51.6	52.2	53.6		48.1	50.9	53.2	40.2		52.2
5,000	mb		480	473	478	468	465	476	476	482		482	483	484	492		478
	−C°		45.9	53.3	47.1	50.8	51.3	42.6	46.8	46.0		39.8	42.0	46.7	33.5		45.5
4,000	mb		557	552	555	544	542	550	552	559	554	558	558	561	567		554
	−C°		38.8	46.4	42.7	46.0	45.5	33.4	40.2	38.3	39.5	33.8	33.6	37.3	28.7		38.8
3,000	mb		644	639	642	630	628	634	636	646	640	643	642	647	650		640
	−C°		34.4	39.2	35.7	39.6	38.8	30.3	32.9	31.4	33.2	28.8	26.7	32.0	23.4		32.8
2,500	mb		691	686	689	678	675	680	682	692	687	689	688	694	695		687
	−C°		31.1	35.8	31.9	37.3	36.5	28.3	29.7	29.9	31.7	28.5	24.1	28.7	20.3		30.2
2,000	mb		742	738	740	728	726	729	732	744	736	738	737	745	744		737
	−C°		30.2	33.2	32.2	35.2	33.6	26.1	29.1	28.7	29.6	25.7	22.5	26.5	18.1		28.5
1,500	mb		795	792	794	784	779	782	784	798	790	791	788	798	796		790
	−C°		26.2	30.8	29.6	33.4	32.7	24.0	26.4	30.3	27.3	24.1	23.5	24.6	15.2		26.7
1,000	mb		852	850	852	842	836	836	842	856	848	848	845	854	850		847
	−C°		22.9	32.3	27.5	33.3	31.8	22.6	28.5	30.7	26.7	22.5	25.3	21.0	13.9		26.0
500	mb		911	912	914	903	897	894	902	916	908	908	904	913	907		907
	−C°		22.9	31.4	33.9	37.2	30.2	23.5	27.2	29.2	28.3	23.8	24.3	19.2	15.9		26.6
Sfc.	mb		973	974	976	967	959	957	963	979	970	968	964	973	967		968
	−C°		32.3	29.7	44.0	44.7	51.2	43.4	24.1	28.6	39.8	31.7	25.5	22.0	33.6		34.6

TABLE 2.—*Results of radiosonde observations, Little America III, at standard elevations*—Continued

[Free-air pressures and temperatures, Period 9: August 15 to 28, 1940]

Elev. meters m. s. l.		No.	90	91	92	93	94	(W)	95	96	(W)	97	98	99		100	Mean
		GMT.	0821	0902	0836	0909	1246		1853	1234		1534	2015	1932		0908	
		Date.	8/15	8/16	8/17	8/18	8/19	8/20	8/21	8/22	8/23	8/24	8/25	8/26	8/27	8/28	
14,000	mb.						106						106				108
	−C°.						82.1						80.7				80.5
13,000	mb.	130	128				126			128		130	127			130	128
	−C°.	75.8	76.3				78.9			78.3		78.5	79.5			80.3	78.7
12,000	mb.	154	152	154			150		151	152		155	151			155	152
	−C°.	73.6	72.9	75.8			75.9		78.3	76.1		76.7	78.2			79.6	76.6
11,000	mb.	184	181	182			178		181	181		184	179			185	181
	−C°.	73.0	72.1	73.4			72.8		76.1	74.1		75.2	76.0			74.5	74.4
10,000	mb.	218	214	215			211		216	214		218	214			219	215
	−C°.	70.1	70.6	70.1			70.5		74.3	70.3		71.1	73.5			72.8	71.7
9,000	mb.	257	253	254			250		254	254		257	254	255		259	254
	−C°.	66.6	67.5	66.8			67.0		70.2	67.8		M	69.7	68.5		68.4	68.2
8,000	mb.	302	298	299			292		301	298		304	298	301		306	300
	−C°.	60.9	64.0	62.1			61.9		65.1	63.7		64.5	64.5	62.3		61.2	63.0
7,000	mb.	354	350	351			345		354	352		358	352	352		357	352
	−C°.	53.3	59.8	58.2			58.2		58.5	58.9		59.0	59.9	54.6		54.8	57.5
6,000	mb.	414	412	412	409		404		414	412		418	412	412		418	412
	−C°.	46.3	53.1	53.8	51.0		53.1		51.3	52.0		52.1	52.9	47.3		49.7	51.1
5,000	mb.	480	480	480	476		470		481	480		486	478	479		488	480
	−C°.	39.2	44.8	45.4	44.9		44.0		45.3	46.4		43.4	44.6	40.9		43.6	43.8
4,000	mb.	555	554	557	551		544		558	557		564	554	554		562	555
	−C°.	32.5	36.3	38.5	39.3		35.2		37.3	40.1		34.4	37.0	36.3		37.0	36.7
3,000	mb.	638	640	642	635		626		642	644		649	639	638		648	640
	−C°.	27.7	30.8	31.7	31.5		27.2		31.1	33.8		27.7	29.5	31.1		28.8	30.0
2,500	mb.	684	686	689	682		672		689	691		695	685	685		696	687
	−C°.	26.2	29.3	29.2	30.5		26.2		27.3	30.8		24.8	25.8	28.4		24.4	27.5
2,000	mb.	732	736	740	732		718		738	742		744	735	734		744	736
	−C°.	26.4	29.5	27.3	28.5		23.8		24.2	29.1		21.2	23.8	26.0		22.8	25.6
1,500	mb.	784	790	792	784		770		792	796		797	787	786		796	788
	−C°.	26.2	29.8	26.7	29.1		24.1		24.5	27.7		17.7	23.8	23.0		21.7	24.9
1,000	mb.	842	846	850	841		825		848	852		852	842	842		855	845
	−C°.	26.9	28.4	30.2	27.7		23.7		24.7	27.4		18.7	22.9	23.3		25.2	25.3
500	mb.	903	908	911	902		883		908	910		911	902	902		916	905
	−C°.	29.0	25.3	29.3	27.1		20.0		22.7	26.8		14.5	25.5	24.0		25.0	24.4
Sfc.	mb.	963	968	972	963		940		968	974		969	963	962		975	965
	−C°.	33.9	30.0	39.8	34.1		22.6		31.7	42.1		23.6	47.0	44.0		33.4	34.7

[Free-air pressures and temperatures, Period 10: August 29 to September 11, 1940]

Elev. meters m. s. l.		No.	101	102		103		104	105	106	107		108		109		Mean
		GMT.	0806	0825		0918		0816	0819	0828	2151		0812		2041		
		Date.	8/29	8/30	8/31	9/1	9/2	9/3	9/4	9/5	9/6	9/7	9/8	9/9	9/10	9/11	
13,000	mb.														129		126
	−C°.														80.0		76.5
12,000	mb.									151	152				154		151
	−C°.									77.0	M				78.7		75.2
11,000	mb.							176		180	183				184		181
	−C°.							74.0		76.2	M				76.2		73.6
10,000	mb.		212					210		212	218				218		215
	−C°.		73.0					71.0		75.2	M				73.4		71.3
9,000	mb.	255	252					248		252	256		260		256		254
	−C°.	68.8	68.2					67.8		71.8	65.0		63.3		69.4		67.4
8,000	mb.	300	297		298			293	296	298	301		305		304		299
	−C°.	64.9	63.0		64.3			63.8	62.8	65.4	62.9		57.0		63.6		62.6
7,000	mb.	352	350		350			344	347	351	354		357		358		351
	−C°.	59.1	57.8		59.6			59.3	59.1	58.3	52.1		51.0		56.5		56.5
6,000	mb.	413	410		410			404	408	410	414		416		417		411
	−C°.	53.8	54.6		54.7			55.9	54.8	51.4	49.8		45.4		49.5		51.8
5,000	mb.	482	479		481			472	474	477	482		482		486		479
	−C°.	46.6	48.0		48.0			49.4	48.7	44.0	42.1		40.2		41.5		45.0
4,000	mbs.	559	555		557			548	551	552	558		556		562		555
	−C°.	39.0	40.1		41.1			40.5	41.8	36.8	35.1		35.0		34.5		37.8
3,000	mbs.	646	640		643			634	638	638	642		640		648		641
	−C°.	31.0	33.7		33.7			36.8	35.6	31.6	28.1		28.6		28.0		31.5
2,500	mb.	692	688		692			681	685	684	688		688		694		688
	−C°.	28.5	32.0		32.4			33.6	32.0	28.8	25.6		25.6		28.1		29.2
2,000	mb.	742	739		742			732	735	733	737		738		744		738
	−C°.	26.4	30.0		34.0			30.7	29.7	M	23.6		24.5		26.8		27.7
1,500	mb.	794	793		796			786	788	784	790		790		790		790
	−C°.	25.0	29.3		33.4			29.0	27.7	M	21.9		24.5		26.4		26.6
1,000	mb.	852	851		856			842	845	840	845		846		856		848
	−C°.	26.5	27.7		30.1			29.7	28.6	21.9	21.0		23.7		26.8		26.2
500	mb.	914	911		918			905	905	901	904		906		918		909
	−C°.	29.2	28.8		28.7			33.7	28.5	33.6	23.9		29.0		31.8		29.7
Sfc.	mb.	975	974		980			967	968	964	967		969		980		972
	−C°.	37.1	47.7		58.5			55.9	51.3	55.3	49.7		56.9		50.0		51.4

TABLE 2.—*Results of radiosonde observations, Little America III, at standard elevations*—Continued

[Free-air pressures and temperatures, Period 11: September 12 to 25, 1940]

Elev. meters m. s. l.				110		111	112		113			114			115	Mean
	No.															
	GMT			0745		0845	2042		0812			0815			0806	
	Date	9/12	9/13	9/14	9/15	9/16	9/17	9/18	9/19	9/20	9/21	9/22	9/23	9/24	9/25	
17,000	mb						67									64
	−C°						75.8									79.8
16,000	mb						79									76
	−C°						75.0									79.0
15,000	mb						94									91
	−C°						74.1									78.1
14,000	mb					110	111									108
	−C°					77.1	73.3									77.3
13,000	mb					130	131									128
	−C°					76.2	72.4									76.4
12,000	mb					155	156								151	153
	−C°					74.1	71.5								75.3	74.9
11,000	mb					184	184								179	181
	−C°					71.7	68.7								72.9	72.4
10,000	mb			216		219	218		214						212	215
	−C°			69.6		70.6	65.6		72.8						70.5	70.2
9,000	mb			255		257	256		253						251	254
	−C°			66.6		67.0	63.4		70.3						67.2	67.3
8,000	mb			302		303	302		300						296	300
	−C°			63.4		62.4	59.2		65.1						63.1	63.0
7,000	mb			354		358	352		353						348	352
	−C°			58.6		57.8	55.5		59.6						57.2	58.1
6,000	mb			413		416	413		412						406	411
	−C°			51.7		51.5	52.8		52.3						51.3	52.3
5,000	mb			481		484	480		478						471	478
	−C°			45.3		44.9	46.6		46.5						42.2	45.5
4,000	mb			557		562	558		556						546	555
	−C°			38.4		36.3	39.1		41.6						34.4	38.3
3,000	mb			643		648	644		644			637			629	641
	−C°			32.0		29.1	33.7		35.8			34.2			29.6	32.4
2,500	mb			690		695	692		692			684			676	688
	−C°			29.7		25.4	29.9		32.2			34.0			26.9	29.7
2,000	mb			740		744	742		743			736			724	735
	−C°			28.5		22.6	26.7		29.2			35.0			26.1	28.0
1,500	mb			794		796	794		796			789			775	791
	−C°			29.3		21.5	23.2		26.7			33.8			27.4	27.0
1,000	mb			851		854	851		855			848			830	848
	−C°			29.9		24.2	22.7		28.0			30.0			26.7	26.9
500	mb			914		914	911		916			908			892	909
	−C°			32.6		25.4	30.9		32.2			27.3			23.7	28.7
Sfc.	mb			976		975	973		978			970			948	970
	−C°			33.0		52.4	50.4		52.0			47.8			21.4	42.8

[Free-air pressures and temperatures, Period 12: September 26 to October 9, 1940]

Elev. meters m. s. l.		116			117		118	119	120		121	122	123	124	125	Mean
	No.															
	GMT	0930			0230		0754	1954	1219		0251	0812	0810	0902	0905	
	Date	9/26	9/27	9/28	9/29	9/30	10/1	10/2	10/3	10/4	10/5	10/6	10/7	10/8	10/9	
18,000	mb							57								51
	−C°							73.2								71.3
17,000	mb							67								61
	−C°							76.0								74.1
16,000	mb							80								74
	−C°							76.0								74.1
15,000	mb							95					96			89
	−C°							75.9					73.3			74.0
14,000	mb							113					114			107
	−C°							75.6					74.8			74.6
13,000	mb						128	135					136			129
	−C°						77.8	76.9					73.8			74.8
12,000	mb	155					152	160	158			160	162	156		154
	−C°	78.3					75.1	77.5	73.7			73.3	71.9	68.9		73.4
11,000	mb	185					182	191	187			190	192	186		184
	−C°	76.0					75.1	77.1	71.7			71.9	68.7	68.3		72.0
10,000	mb	220					216	227	222			225	226	218		219
	−C°	72.6					72.7	75.9	71.8			69.9	69.3	66.2		70.5
9,000	mb	259					255	269	262			266	265	257		258
	−C°	67.9					69.7	70.4	68.1			66.6	65.2	62.9		66.6
8,000	mb	305					302	317	310			312	314	302	304	306
	−C°	62.0					67.4	63.1	65.8			59.8	60.1	58.4	58.8	61.7
7,000	mb	358					354	372	364			366	368	354	356	359
	−C°	55.3					62.2	55.6	58.9			51.5	52.6	51.5	50.9	54.6
6,000	mb	416			414		416	434	426			427	429	412	415	419
	−C°	50.2			52.7		54.9	47.1	51.4			44.0	46.3	47.4	46.0	48.9
5,000	mb	485			483		484	503	495			492	496	480	481	487
	−C°	42.7			43.4		46.8	38.2	42.5			40.0	40.4	47.3	39.4	42.3
4,000	mb	561			559		562	580	572		549	569	574	556	556	564
	−C°	34.4			36.2		38.3	30.9	33.6		35.6	34.0	33.7	41.6	36.6	35.5
3,000	mb	646			645		648	667	656		634	656	662	643	642	650
	−C°	30.1			28.7		31.6	24.2	24.0		29.5	28.9	28.1	33.4	32.8	29.1
2,500	mb	694			691		695	714	705		680	702	709	691	689	697
	−C°	28.8			25.2		28.0	20.5	21.4		27.2	25.4	26.7	31.8	29.7	26.5
2,000	mb	744			740		746	764	754		728	753	760	741	739	747
	−C°	29.8			22.9		25.1	17.2	16.9		24.9	21.8	24.2	28.8	27.5	23.9
1,500	mb	797			792		798	816	806		780	806	814	795	792	800
	−C°	30.0			20.8		21.4	15.5	14.4		22.7	21.0	21.0	26.6	25.4	21.9
1,000	mb	856			847		854	872	861		836	861	870	851	849	856
	−C°	25.0			17.2		17.9	12.7	12.6		25.4	19.4	23.0	23.3	28.2	20.5
500	mb	916			906		914	930	918		894	920	931	911	908	915
	−C°	21.2			14.2		16.4	10.5	11.3		26.2	17.3	18.1	28.8	25.3	18.9
Sfc.	mb	976			966		971	990	978		954	981	991	972	969	975
	−C°	25.9			20.2		15.1	16.9	33.3		23.7	31.0	18.5	37.3	42.8	26.5

TABLE 2.—*Results of radiosonde observations, Little America III, at standard elevations*—Continued

[Free-air pressures and temperatures, Period 13: October 10 to 23, 1940]

Elev. meters m. s. l.		No.	126	(W)	127	(T)	(T)	(T)	(T)	128	(T)	(T)	129	(W)	130	(T)	Mean [1]
		GMT	0811		1908					0845			0911		1903		
		Date	10/10	10/11	10/12	10/13	10/14	10/15	10/16	10/17	10/18	10/19	10/20	10/21	10/22	10/23	
16,000	mb				80												
	−C°				64.5												
15,000	mb				94												
	−C°				66.0												
14,000	mb				112												
	−C°				67.0												
13,000	mb				132												
	−C°				69.9												
12,000	mb				156								154				
	−C°				68.9								70.1				
11,000	mb				184								182				
	−C°				67.9								69.9				
10,000	mb		220		218					216			216				
	−C°		66.8		67.2					M			70.5				
9,000	mb		260		256					254			256				
	−C°		65.1		66.2					M			70.1				
8,000	mb		306		302					299			302				
	−C°		61.4		66.1					64.0			66.0				
7,000	mb		358		355					353			354				
	−C°		54.9		57.9					59.0			59.9				
6,000	mb		417		416					412			415				
	−C°		48.2		50.0					53.0			52.0				
5,000	mb		485		482					481			844				
	−C°		40.3		40.8					44.0			42.4				
4,000	mb		561		558					557			561				
	−C°		33.7		32.6					36.1			34.3				
3,000	mb		646		641					641			646				
	−C°		31.0		25.8					M			27.2				
2,500	mb		693		686					686			692		708		
	−C°		28.1		24.3					M			25.0		17.8		
2,000	mb		743		735					735			742		757		
	−C°		26.0		21.4					18.9			23.0		14.2		
1,500	mb		795		787					785			794		808		
	−C°		24.9		19.2					17.8			22.4		11.4		
1,000	mb		853		843					839			849		862		
	−C°		24.7		18.6					18.3			19.8		9.0		
500	mb		914		900					897			907		920		
	−C°		25.1		18.5					18.4			19.0		7.0		
Sfc.	mb		973		959					956			965		978		
	−C°		35.2		41.5					32.8			22.0		26.4		

[Free-air pressures and temperatures, Period 14: October 24 to November 6, 1940]

Elev. meters m. s. l.		No.	(T)	(T)	131	(T)	(T)	(T)	132	(T)	133	(T)	(T)	(T)	(T)	(W)	Mean [1]
		GMT			2019				0842		1829						
		Date	10/24	10/25	10/26	10/27	10/28	10/29	10/30	10/31	11/1	11/2	11/3	11/4	11/5	11/6	
22,000	mb										38						32
	−C°										29.0						33.8
21,000	mb										43						37
	−C°										32.1						36.9
20,000	mb										50						44
	−C°										35.9						40.7
19,000	mb				55						58						52
	−C°				40.6						39.5						44.3
18,000	mb				63						67						60
	−C°				45.3						42.6						48.2
17,000	mb				74						78						72
	−C°				48.6						45.0						51.0
16,000	mb				86						91						84
	−C°				51.9						47.9						54.1
15,000	mb				100						106						98
	−C°				54.3						50.0						56.1
14,000	mb				118						124						116
	−C°				57.0						53.1						58.4
13,000	mb				137						144						136
	−C°				62.5						55.0						61.8
12,000	mb				162				163		169						161
	−C°				64.0				56.8		58.1						63.0
11,000	mb				192				192		198						190
	−C°				68.0				59.7		57.7						64.1
10,000	mb				226				225		232						223
	−C°				68.2				61.3		57.7						64.4
9,000	mb				265				264		272						263
	−C°				67.8				63.4		61.0						64.7
8,000	mb				314				310		318						309
	−C°				60.0				59.9		56.7						60.8
7,000	mb				367				364		371						362
	−C°				52.0				52.0		50.3						54.0
6,000	mb				428				423		432						422
	−C°				43.7				44.7		43.0						46.6
5,000	mb				495				491		499						490
	−C°				34.8				37.4		34.0						37.9
4,000	mb				570				567		575						566
	−C°				28.0				31.2		26.9						30.6
3,000	mb				654				652		659						650
	−C°				21.3				24.2		20.3						24.5
2,500	mb				698				699		705						696
	−C°				16.9				21.3		18.0						21.6
2,000	mb				747				747		754						745
	−C°				15.0				18.4		14.8						19.0
1,500	mb				797				798		805						796
	−C°				14.9				16.2		12.8						17.7
1,000	mb				853				854		860						852
	−C°				16.3				15.5		10.2						16.6
500	mb				912				912		918						910
	−C°				14.6				13.7		15.7						16.5
Sfc.	mb				969				969		976						968
	−C°				25.3				20.7		26.8						28.8

[1] Means given with period 14 include data for period 13 also.

TABLE 2.—*Results of radiosonde observations, Little America III, at standard elevations*—Continued

[Free-air pressures and temperatures, Period 15: November 7 to 20, 1940]

Elev. meters m. s. l.		No.	135	(T)	136	137	138	139	140	141	142	143	144	145	146	147	Mean
		GMT.	0854		0811	0835	0851	0836	0821	0756	1305	1254	1248	1253	1308	1317	
		Date.	11/7	11/8	11/9	11/10	11/11	11/12	11/13	11/14	11/15	11/16	11/17	11/18	11/19	11/20	
21,000	mbs.										46			48			46
	−C°.										29.9			29.6			31.0
20,000	mbs.				52		53				52		54	55		56	53
	−C°.				35.2		35.2				31.0		32.6	31.9		31.0	32.7
19,000	mbs.				60	59	61				60	60	62	63		64	61
	−C°.				36.8	35.1	36.2				32.0	33.8	34.4	34.5		32.3	34.3
18,000	mbs.				69	68	71				70	70	72	73		73	70
	−C°.				37.8	37.2	37.2				33.2	34.0	36.6	33.7		34.9	35.5
17,000	mbs.				80	78	82				80	80	82	83	83	84	87
	−C°.				38.4	40.0	40.0				34.3	35.8	36.1	34.2	35.3	34.7	36.6
16,000	mbs.				92	91	95	94	94		93	93	95	97	96	98	94
	−C°.				40.5	42.9	42.2	36.0	35.8		36.0	36.8	36.3	35.0	36.6	35.8	38.1
15,000	mbs.				107	106	110	108	109		107	108	110	112	111	112	109
	−C°.				45.1	45.7	44.4	39.0	39.0		38.9	39.3	37.9	36.6	36.6	35.9	39.3
14,000	mbs.				124	122	127	126	126		124	124	126	129	129	130	126
	−C°.				48.4	47.7	46.7	43.8	42.4		41.5	41.9	40.0	38.0	38.5	36.0	41.7
13,000	mbs.				145	143	148	147	147		144	144	147	150	150	150	146
	−C°.				51.8	51.0	50.2	47.8	46.3		45.0	45.9	44.0	39.1	41.9	37.7	45.5
12,000	mbs.				169	165	172	172	172	169	168	168	171	174	173	174	170
	−C°.				55.8	52.6	51.9	51.5	49.4	49.0	47.8	50.0	46.9	43.7	45.9	42.0	48.8
11,000	mbs.				198	196	202	199	199	197	195	196	199	201	201	202	198
	−C°.				58.0	56.1	55.0	53.3	52.2	51.1	51.3	52.7	50.3	46.9	47.6	45.0	51.6
10,000	mbs.				233	229	236	234	233	230	228	230	233	234	235	235	232
	−C°.				61.8	57.0	55.8	55.0	55.2	53.4	53.6	54.7	53.7	50.0	50.4	48.8	53.1
9,000	mbs.		268		273	268	276	273	273	268	266	269	272	274	274	274	271
	−C°.		M		61.3	57.8	55.9	56.3	57.3	53.6	54.3	56.5	56.1	53.9	54.8	52.7	53.8
8,000	mbs.		315		321	313	322	319	319	314	312	314	318	320	321	318	317
	−C°.		M		55.6	56.0	55.2	56.9	54.7	52.3	54.0	55.8	55.8	53.2	55.3	54.6	52.9
7,000	mbs.		368		374	367	376	374	373	366	364	368	372	373	375	372	371
	−C°.		M		48.7	53.2	51.0	51.7	47.9	50.9	52.3	54.3	49.4	49.3	47.8	50.0	49.5
6,000	mbs.		428		434	427	436	434	432	426	426	428	432	433	435	434	431
	−C°.		M		42.0	46.8	45.2	44.8	41.9	47.2	49.0	44.4	44.3	45.3	41.5	42.8	43.6
5,000	mbs.		496		502	495	499	503	499	494	494	496	501	502	503	503	499
	−C°.		37.4		34.9	41.1	39.2	37.1	36.0	38.5	41.7	39.8	36.7	36.1	36.2	36.8	37.8
4,000	mbs.		572		578	573	576	579	577	571	571	574	577	578	580	579	576
	−C°.		28.9		29.0	34.7	32.0	30.4	29.5	31.2	35.3	32.9	31.6	30.6	30.3	30.5	31.3
3,000	mbs.		657		664	660	662	666	662	656	658	660	664	666	666	666	662
	−C°.		22.6		23.9	27.7	23.9	22.6	22.9	23.8	27.7	25.9	25.0	26.1	24.2	23.4	24.6
2,500	mbs.		702		711	707	709	713	708	702	704	707	711	714	714	713	709
	−C°.		20.8		20.3	24.3	20.4	19.7	18.4	20.4	23.7	22.6	21.4	23.0	21.7	21.1	21.4
2,000	mbs.		752		760	758	758	763	756	752	754	756	760	763	764	763	758
	−C°.		18.0		18.0	21.3	18.9	16.5	17.3	18.2	21.3	20.0	17.8	19.7	18.7	18.3	18.8
1,500	mbs.		804		814	810	811	816	808	804	807	808	812	816	818	815	811
	−°C.		16.8		18.3	21.8	17.0	14.0	12.8	15.3	21.0	17.4	14.3	20.0	19.7	16.4	17.3
1,000	mbs.		859		869	868	868	870	864	859	863	865	868	873	874	870	867
	−C°.		15.0		14.7	16.2	15.6	16.0	11.3	13.9	16.8	15.0	15.4	16.4	15.5	14.4	15.1
500	mbs.		918		928	926	926	930	921	917	923	924	927	934	934	930	926
	−C°.		12.3		10.3	12.2	12.3	11.3	14.8	15.8	13.4	14.3	11.9	13.8	11.5	10.6	12.7
Sfc.	mbs.		947		985	984	984	988	980	975	981	982	985	992	992	989	984
	−C°.		17.7		9.1	9.8	7.9	8.8	18.1	18.6	10.3	16.2	11.2	10.7	8.6	10.2	12.1

TABLE 2.—*Results of radiosonde observations, Little America III, at standard elevations*—Continued

[Free-air pressures and temperatures, Period 16: November 20 to December 4, 1940]

Elev. Meters m. s. l.	No.	148	149	(W)	150	151	(W)	(W)	152	153	154	(W)	(W)	(W)	(W)	Mean
	GMT	1334	1405		1243	1843			1918	1940	1244					
	Date	11/21	11/22	11/23	11/24	11/25	11/26	11/27	11/28	11/29	11/30	12/1	12/2	12/3	12/4	
20,000	mb								56							57
	−C°								28.4							29.5
19,000	mb					65			65							66
	−C°					28.1			30.3							31.4
18,000	mb	73	73			75			75	76						76
	−C°	36.7	34.8			29.2			32.1	30.0						32.8
17,000	mb	84	84		85	86			86	87						87
	−C°	36.0	35.4		33.8	30.3			33.9	30.9						33.6
16,000	mb	97	98		98	99			100	100						100
	−C°	38.0	36.1		34.7	31.5			35.8	32.0						34.9
15,000	mb	112	112		114	114			114	115						115
	−C°	38.8	35.4		35.1	31.7			35.9	33.1						35.2
14,000	mb	130	130		132	131			132	133						131
	−C°	38.8	37.0		35.3	32.1			35.2	34.3						35.7
13,000	mb	150	150		152	151			152	153	150					151
	−C°	39.1	39.8		36.0	33.0			35.1	34.1	37.7					36.4
12,000	mb	174	174		175	175			176	176	174					175
	−C°	41.9	42.6		36.4	35.3			35.3	33.8	41.6					38.1
11,000	mb	202	202		201	202			204	204	202					202
	−C°	45.5	45.1		36.9	38.6			35.3	35.9	43.1					40.1
10,000	mb	234	235		234	234			236	236	234					235
	−C°	48.4	48.0		40.0	42.2			38.4	39.0	45.0					43.0
9,000	mb	272	274		271	272			272	274	272					272
	−C°	50.9	49.8		46.4	44.8			41.6	41.0	50.0					46.4
8,000	mb	320	319		316	316			316	318	318					318
	−C°	48.4	49.2		53.2	47.3			44.2	45.1	51.6					48.4
7,000	mb	373	371		370	367			368	370	371					370
	−C°	44.3	46.9		49.0	47.4			42.3	46.0	48.7					46.7
6,000	mb	435	430		428	427			426	429	430					429
	−C°	41.0	39.8		41.9	44.6			39.4	45.3	45.8					42.5
5,000	mb	503	497		496	495			491	497	498					497
	−C°	38.7	35.3		34.5	38.3			35.9	38.4	39.3					37.2
4,000	mb	581	574		572	572			568	575	576					574
	−C°	32.6	29.4		31.5	32.6			37.0	33.1	33.7					32.8
3,000	mb	668	659		658	658			654	661	664					660
	−C°	25.0	23.2		26.3	28.5			29.5	26.2	28.4					26.7
2,500	mb	714	706		704	706			701	708	711					707
	−C°	22.0	21.0		22.6	23.6			24.5	22.1	24.8					22.9
2,000	mb	764	756		753	754			751	758	762					757
	−C°	18.1	19.2		20.0	20.4			19.8	18.8	21.2					19.6
1,500	mb	817	808		804	806			802	810	814					809
	−C°	13.8	17.7		17.2	16.5			16.4	15.2	18.5					16.5
1,000	mb	874	864		860	861			858	866	870					865
	−C°	18.6	16.0		14.3	13.3			12.4	12.7	17.3					14.9
500	mb	933	924		918	920			916	924	930					924
	−C°	16.1	17.0		15.3	12.6			7.9	14.0	13.1					13.7
Sfc.	mb	993	983		978	979			972	983	989					982
	−C°	12.6	14.7		13.9	13.9			4.4	9.2	8.0					11.0

[Free-air pressures and temperatures, Period 17: December 5 to 18, 1940]

Elev. meters m. s. l.	No.	(W)	155	156	157	158	159	160	161	162	163	164	165	166	167	Mean
	GMT		1348	1416	1244	1405	1404	1301	1338	1356	1247	1450	1240	1245	1247	
	Date	12/5	12/6	12/7	12/8	12/9	12/10	12/11	12/12	12/13	12/14	12/15	12/16	12/17	12/18	
20,000	mb					55								56		56
	−C°					32.0								34.4		32.3
19,000	mb		63			63				65	64		65	64		64
	−C°		34.0			33.8				35.5	36.0		30.7	36.1		34.0
18,000	mb		73	74		73				75	75	75	75	75		74
	−C°		35.3	34.1		35.7				37.2	37.1	35.8	33.7	37.2		35.7
17,000	mb		85	86	86	84			87	86	87	86	86	86		86
	−C°		36.6	36.0	33.0	36.2			38.8	38.9	38.8	36.8	36.0	37.5		37.1
16,000	mb		98	99	99	98			100	100	100	100	100	100		99
	−C°		37.5	36.0	34.4	36.1			40.1	41.5	40.3	37.8	38.3	38.8		38.3
15,000	mb		113	114	115	112		114	116	116	116	116	116	115		115
	−C°		39.4	36.7	35.9	37.7		40.0	42.2	43.0	42.5	39.0	40.0	39.6		39.8
14,000	mb		131	132	133	130		132	134	134	134	133	134	134		133
	−C°		41.4	38.1	37.1	39.1		41.9	43.8	44.0	42.9	41.6	40.8	39.8		41.1
13,000	mb		151	152	153	151		153	156	156	156	154	156	154		154
	−C°		43.1	41.4	39.6	41.8		43.6	44.3	44.2	43.4	43.0	41.0	40.9		42.6
12,000	mb		175	178	178	175		178	182	181	181	180	180	179		179
	−C°		45.0	45.3	42.7	44.3		44.0	45.0	45.0	44.8	42.9	41.3	41.9		44.0
11,000	mb		204	208	207	204		207	211	210	210	209	210	208		208
	−C°		47.2	50.1	46.8	49.2		45.1	48.1	46.1	46.8	44.8	42.8	42.3		46.5
10,000	mb		237	241	240	237	239	241	246	244	244	246	244	241		242
	−C°		51.0	54.0	51.9	54.3	49.5	47.8	53.5	50.0	48.8	48.0	45.1	44.9		50.1
9,000	mb		278	282	282	279	280	280	288	285	284	284	283	279		282
	−C°		56.4	61.0	59.8	60.8	56.9	51.0	53.9	53.2	52.9	53.9	51.8	49.0		55.2
8,000	mb		324	331	329	326	326	326	336	333	332	330	330	327		329
	−C°		53.9	53.7	52.8	54.6	54.0	50.7	46.0	47.8	47.0	51.0	50.0	50.0		51.2
7,000	mb		381	386	386	380	380	380	390	387	386	386	384	379		384
	−C°		45.2	45.4	46.3	46.6	46.3	44.9	37.8	40.9	40.9	43.6	43.3	46.5		44.2
6,000	mb		439	446	445	441	441	442	449	446	446	446	445	441		444
	−C°		38.9	36.8	38.5	39.5	38.7	37.4	30.2	35.7	33.2	37.0	37.9	40.8		37.3
5,000	mb		506	514	514	508	509	510	516	514	513	514	513	511	514	512
	−C°		31.4	29.3	30.0	33.2	32.4	32.8	25.1	28.0	29.6	32.1	31.4	34.9	33.6	31.1
4,000	mb		582	590	588	586	586	587	591	591	589	589	588	588	592	588
	−C°		27.8	21.8	23.0	25.7	25.6	26.2	21.2	23.0	22.1	23.3	26.5	27.8	28.4	24.8
3,000	mb		668	676	676	671	670	672	676	676	674	676	674	675	678	674
	−C°		21.0	17.0	16.0	19.2	18.2	19.3	19.3	17.5	17.2	18.9	17.7	20.8	20.7	18.7
2,500	mb		714	722	722	717	716	719	724	722	722	722	721	722	728	721
	−C°		18.0	14.6	15.2	16.9	16.1	16.3	17.6	15.4	15.4	16.8	14.6	18.5	18.5	16.5
2,000	mb		763	771	770	767	766	768	773	772	770	773	771	772	776	770
	−C°		14.2	10.8	12.3	13.4	13.2	14.6	14.6	12.6	11.7	13.8	12.9	14.7	16.0	13.4
1,500	mb		816	824	821	818	818	820	825	826	822	826	823	825	828	822
	−C°		12.1	8.0	7.7	11.0	11.0	12.2	12.7	9.3	9.8	10.9	9.7	12.3	13.1	10.8
1,000	mb		871	878	876	874	872	876	881	879	877	882	879	881	884	878
	−C°		9.0	4.3	5.1	8.0	10.2	10.7	10.1	6.8	7.8	8.0	7.5	9.6	10.0	8.2
500	mb		929	935	934	933	932	934	941	938	935	939	937	940	943	936
	−C°		6.6	2.0	2.3	7.0	8.5	8.2	8.8	9.0	7.2	8.7	6.4	9.0	6.8	6.9
Sfc.	mb		986	991	990	989	990	992	998	996	993	996	995	997	1002	993
	−C°		2.9	4.7	10.2	12.2	13.1	13.5	12.4	10.2	14.4	10.8	14.6	13.6	11.9	11.1

TABLE 2.—*Results of radiosonde observations, Little America III, at standard elevations*—Continued

[Free-air pressures and temperatures, Period 18: December 19, 1940, to January 1, 1941]

Elev. meters m. s. l.		No.	168	169	170	171	172	173		175		175		176		177	178	Mean
		GMT	1246	1242	1245	0048	1245	1254		1304		1245		1300		1332	1322	
		Date	12/19	12/20	12/21	12/22	12/22	12/23	12/24	12/25	12/26	12/27	12/28	12/29	12/30	12/31	1/1	
33,000	mb						8											7
	−C°						30.0											32.4
32,000	mb						10											9
	−C°						30.7											33.1
31,000	mb						12					12						11
	−C°						31.4					30.0						33.8
30,000	mb						14					14						13
	−C°						32.0					30.6						34.4
29,000	mb						16					16					15.5	15
	−C°						32.3					31.0					35.1	34.6
28,000	mb						18					19					18	17
	−C°						32.5					31.6					35.4	35.0
27,000	mb						21					21					20	20
	−C°						32.7					32.0					35.8	35.3
26,000	mb						24					25					24	24
	−C°						33.0					32.4					35.9	35.6
25,000	mb						28					28					27.5	27
	−C°						33.4					32.8					35.2	35.6
24,000	mb						32					33					32	32
	−C°						33.8					33.0					34.8	35.7
23,000	mb						37					38					36	36
	−C°						34.0					33.4					36.0	36.3
22,000	mb					43	43					44					42	42
	−C°					32.0	34.7					33.9					36.4	36.8
21,000	mb					49	49					50					48	48
	−C°					33.0	35.0					34.2					37.0	37.4
20,000	mb					57	57					58					56	56
	−C°					34.0	36.0					34.8					37.4	38.1
19,000	mb					66	66					67					65	65
	−C°					35.1	36.6					35.4					38.0	38.8
18,000	mb			75		76	76	74				77					75	75
	−C°			38.6		36.4	37.7	38.0				36.2					38.1	39.7
17,000	mb			86		88	88	85				89					86	87
	−C°			39.6		37.3	38.7	38.8				37.0					38.4	40.5
16,000	mb			100		102	101	99				103		102			100	101
	−C°			40.4		38.3	39.9	39.4				38.0		37.7			38.1	41.2
15,000	mb		116	116		118	117	114				119		118			115	116
	−C°		41.2	41.9		39.4	40.0	40.0				38.7		37.7			39.0	41.9
14,000	mb		134	134		136	136	133		134		138		136		134	134	135
	−C°		42.3	42.8		40.1	40.1	40.3		41.2		39.2		37.6		37.4	39.0	42.3
13,000	mb		156	156		158	157	152		156		159		157		156	154	156
	−C°		43.3	43.3		40.1	40.8	40.6		42.7		40.0		37.5		37.8	40.6	43.0
12,000	mb		181	181		183	182	176		182		184		182		179	179	181
	−C°		44.1	44.8		40.2	41.5	41.7		44.1		40.0		37.1		40.0	41.1	43.8
11,000	mb		210	211		211	211	206		210		214		210		208	208	210
	−C°		47.3	46.8		40.8	43.0	42.9		44.0		39.0		38.1		40.8	42.3	44.8
10,000	mb		245	245		244	245	238		244		248		244		241	241	244
	−C°		51.9	50.7		41.7	47.3	43.9		44.8		38.4		40.9		43.1	43.4	46.9
9,000	mb		286	286		284	286	277		284		287		283		280	280	283
	−C°		52.4	53.0		44.9	52.8	46.0		45.9		41.2		43.8		45.0	45.8	49.4
8,000	mb		333	332	329	331	332	321		329		332		328		326	326	329
	−C°		46.0	49.0	43.6	45.7	45.2	50.3		44.9		45.6		50.0		47.1	49.4	49.6
7,000	mb		385	388	381	384	386	375		382		384		381		379	379	382
	−C°		40.7	42.8	41.3	42.1	40.7	50.8		43.8		39.0		43.7		46.3	44.9	45.9
6,000	mb		447	448	442	445	446	436		442		444		442		440	440	443
	−C°		34.7	34.7	41.0	38.9	35.0	43.2		40.4		32.6		35.6		39.2	38.2	40.3
5,000	mb		516	517	510	513	514	506		510		510		509		507	508	511
	−C°		29.7	27.0	35.0	31.5	29.6	36.9		34.8		25.5		26.7		33.4	31.7	33.8
4,000	mb		592	593	588	589	591	584		589		585		583		584	584	587
	−C°		25.1	22.0	27.0	24.2	24.3	30.0		27.9		19.7		20.3		26.0	26.8	27.6
3,000	mb		678	678	674	676	676	670		676		668		666		668	669	673
	−C°		19.0	16.6	19.0	17.4	18.8	23.7		23.0		14.0		14.4		20.0	18.4	21.3
2,500	mb		725	724	720	722	724	718		724		714		711		714	714	719
	−C°		16.9	15.0	16.0	14.4	17.0	22.3		20.1		12.3		12.3		16.6	15.7	19.0
2,000	mb		776	774	770	772	774	769		774		762		760		764	764	769
	−C°		17.0	14.9	12.9	11.3	13.7	20.8		18.5		10.7		10.4		14.4	12.7	17.0
1,500	mb		828	826	821	824	826	822		827		814		810		816	815	821
	−C°		13.7	11.4	10.0	9.4	12.0	19.3		14.9		8.9		7.3		11.0	9.4	14.3
1,000	mb		886	883	876	879	881	879		884		868		864		871	870	876
	−C°		8.8	9.0	8.3	7.0	8.9	15.3		11.6		5.7		5.3		8.0	7.7	11.4
500	mb		944	942	934	935	940	938		944		926		920		928	928	934
	−C°		5.3	4.0	4.3	−3.7	6.1	M		8.7		2.5		2.7		3.6	3.9	5.5
Sfc.	mb		1001	997	991	992	997	998		1003		980		976		984	984	991
	−C°		4.4	6.1	−1.3	+3.7	−4.6	13.3		4.6		−0.1		1.0		1.1	1.5	3.1

TABLE 2.—*Results of radiosonde observations, Little America III, at standard elevations*—Continued

[Free-air pressures and temperatures, Period 19: January 2 to 15, 1941]

Elev. meters m. s. l.				179	180	181	182	(T)	183	184	185	186	187	188	189	190	Mean
	No.			1416	1300	1400	1343		1243	1333	1324	1350	1427	1411	1924	1441	
	GMT			1/3	1/4	1/5	1/6	1/7	1/8	1/9	1/10	1/11	1/12	1/13	1/14	1/15	
	Date	1/2															
20,000	mb			56		55									57		57
	−C°			34.0		35.2									33.0		31.8
19,000	mb			64	65	64					64				66		66
	−C°			35.8	31.6	36.8					34.7				33.0		33.0
18,000	mb			74	75	74	74				74				76		75
	−C°			36.6	33.0	37.1	33.0				35.9				33.3		33.8
17,000	mb			86	86	86	85				85				88		87
	−C°			36.7	34.1	37.0	35.8				36.6				35.1		35.5
16,000	mb			99	99	99	98				98				100		100
	−C°			38.0	35.0	37.6	37.0				37.5				37.7		36.7
15,000	mb			115	115	114	114				114				117		116
	−C°			39.0	37.0	38.0	37.8				38.9				37.7		37.6
14,000	mb			133	133	132	132				132				136		134
	−C°			39.5	37.9	39.6	39.0				39.0				39.4		38.6
13,000	mb			153	154	153	152		151		152			158	156	155	154
	−C°			40.3	38.7	41.0	39.8		39.1		39.9			43.3	41.2	40.6	39.7
12,000	mb			178	178	177	176		176		176			183	182	179	179
	−C°			41.4	40.0	42.6	40.7		40.2		40.7			45.1	42.7	42.6	41.0
11,000	mb			206	207	205	204		204		204			213	212	209	208
	−C°			43.0	41.6	43.7	42.7		41.2		41.4			46.1	47.1	46.1	42.9
10,000	mb			239	239	238	237		236	236	238			248	246	243	241
	−C°			46.9	44.3	49.7	46.0		42.3	38.8	42.8			51.8	54.2	50.8	46.9
9,000	mb			279	278	278	277		274	273	275		290	289	288	283	280
	−C°			52.9	50.6	57.3	54.8		47.0	M	46.0		50.3	52.3	51.1	52.7	50.9
8,000	mb			326	324	326	324		318	316	320		338	336	335	330	327
	−C°			53.5	55.4	51.7	53.3		47.9	45.4	48.0		44.3	45.2	44.2	45.9	48.3
7,000	mb			380	379	380	379		370	368	373	382	391	390	386	382	380
	−C°			46.5	47.8	43.9	45.8		44.7	45.4	45.6	45.2	37.1	38.5	37.0	38.6	43.0
6,000	mb			442	440	439	439		428	426	432	443	450	450	447	441	440
	−C°			39.4	39.2	37.9	38.7		41.0	42.4	40.0	37.5	30.7	32.2	30.1	31.9	36.8
5,000	mb			510	509	506	506		496	492	499	510	517	517	513	508	507
	−C°			31.6	33.1	32.0	33.3		34.6	36.0	32.9	31.5	25.5	25.2	23.9	24.6	30.4
4,000	mb			588	585	583	582		572	568	575	587	593	593	588	581	583
	−C°			25.0	24.2	25.0	25.7		27.9	30.0	26.9	24.8	19.8	20.1	18.4	19.0	23.9
3,000	mb			673	669	668	668		655	651	660	672	678	676	671	664	667
	−C°			18.7	19.0	19.0	19.0		22.0	23.2	21.8	18.7	15.8	15.8	12.3	13.9	18.3
2,500	mb			719	716	713	714		701	697	704	719	722	724	717	710	713
	−C°			17.0	16.1	15.7	16.1		18.7	19.1	18.6	15.1	14.6	13.8	10.0	12.5	15.6
2,000	mb			768	764	764	763		750	746	755	768	774	773	765	758	762
	−C°			13.7	12.8	12.6	13.4		17.1	15.7	16.0	14.6	12.0	12.1	8.1	11.7	13.3
1,500	mb			820	816	814	814		802	797	806	819	827	826	816	808	814
	−C°			10.2	9.8	10.6	11.3		19.0	13.7	14.1	10.0	10.0	10.0	7.3	8.9	11.2
1,000	mb			874	871	868	870		857	850	860	874	881	881	870	862	868
	−C°			7.1	8.3	8.6	12.6		15.0	13.5	10.9	8.1	8.7	9.8	7.6	9.3	10.0
500	mb			932	929	928	928		916	908	918	933	940	940	928	919	927
	−C°			3.9	8.7	12.0	10.0		10.3	14.3	8.4	4.8	4.2	9.0	13.3	5.7	8.7
Sfc.	mb			989	986	985	985		972	966	976	990	997	997	986	977	984
	−C°			8.0	3.6	7.1	4.1		5.9	8.5	12.1	9.2	11.9	5.6	9.7	12.2	8.2

TABLE 3.—*Altitude (in meters above sea level) of certain standard pressure levels for individual radiosonde ascents, with means for each 14-day period*

Standard level mb.	No. 1	2	3	4	5	6	7	8	9	10	11		12	13	14	Mean
	GMT 0254	0240	2101	2040	2050	2111	2052	2050	2047	2103	2122		2226	2045	2016	
	Date 4/25	4/26	4/26	4/27	4/28	4/29	4/30	5/1	5/2	5/3	5/4	5/5	5/6	5/7	5/8	
60				18,184		18,194							18,242			18,199
80	16,738			16,432		16,442							16,473			16,441
100	15,327			15,067		15,070		14,972	14,964				15,082			15,056
150	12,756	12,613		12,563	12,556	12,548		12,439	12,418	12,574	12,549	12,509	12,515			
200	10,965	10,777	10,771	10,773	10,750	10,742	10,621	10,625	10,619	10,764	10,739		10,644			10,702
250	9,593	9,340	9,367	9,401	9,352	9,331	9,203	9,240	9,247	9,366	9,361		9,187			9,302
300	8,445	8,171	8,230	8,291	8,210	8,178	8,050	8,108	8,110	8,229	8,229		8,007			8,158
350	7,439	7,183	7,255	7,330	7,258	7,199	7,066	7,124	7,117	7,250	7,245		7,019			7,177
400	6,540	6,311	6,387	6,474	6,410	6,343	6,206	6,244	6,237	6,378	6,369		6,155			6,308
500	4,991	4,808	4,891	4,978	4,940	4,880	4,736	4,728	4,734	4,869	4,847		4,678			4,810
600	3,678	3,532	3,631	3,697	3,680	3,625	3,481	3,463	3,474	3,593	3,560		3,445	3,370	3,351	3,541
700	2,540	2,412	2,530	2,577	2,579	2,524	2,389	2,362	2,377	2,496	2,450		2,380	2,318	2,286	2,444
800	1,535	1,419	1,548	1,580	1,594	1,542	1,415	1,384	1,411	1,526	1,476		1,442	1,395	1,344	1,472
900	642	532	661	683	711	669	542	515	542	660	614		611	571	527	606

Standard level mb.	No. (W)	15	(W)	16	17	(T)	18	(W)	(W)	19	(W)	20	21	22		Mean
	GMT	2114		1927	1958		2125			2240		2135	2142	2139		
	Date 5/9	5/10	5/11	5/12	5/13	5/14	5/15	5/16	5/17	5/18	5/19	5/20	5/21	5/22		
60				17,753						18,118						17,916
80				16,044	16,352					16,434						16,219
100		14,724		14,698	15,000					15,108						14,878
150		12,251		12,212	12,514					12,629			12,301			12,397
200		10,457		10,426	10,733					10,840			10,495	10,492		10,606
250		9,053		9,041	9,361					9,436			9,091	9,107		9,214
300		7,916		7,915	8,246					8,283			7,943	7,981		8,079
350		6,950		6,958	7,289					7,299		7,166	6,973	7,024		7,114
400		6,110		6,118	6,441					6,435		6,310	6,121	6,184		6,266
500		4,679		4,674	4,971					4,945		4,814	4,671	4,740		4,805
600		3,473		3,446	3,716					3,658		3,549	3,443	3,512		3,562
700		2,421		2,372	2,628					2,525		2,461	2,378	2,442		2,481
800		1,494		1,430	1,662		1,668			1,520		1,503	1,440	1,500		1,527
900		663		686	803		830			609		654	598	651		687
1,000					56		83									

Standard level mb	No. 23	24	25	(W)	26	27	28	(W)	29	30		31	(W)	32		Mean
	GMT 2142	2203	2144		2150	2146	2149		2142	2144		2146		2143		
	Date 5/23	5/24	5/25	5/26	5/27	5/28	5/29	5/30	5/31	6/1	6/2	6/3	6/4	6/5		
80						16,146								16,123		16,092
100					14,833	14,820								14,784		14,759
150	12,312	12,367	12,285		12,389	12,376	12,360			12,400		12,172		12,317		12,308
200	10,561	10,628	10,579		10,633	10,616	10,608			10,615		10,421		10,544		10,555
250	9,196	9,276	9,273		9,274	9,257	9,256			9,224		9,043		9,166		9,195
300	8,081	8,166	8,190		8,153	8,158	8,151			8,082		7,917		8,029		8,080
350	7,124	7,214	7,242		7,187	7,210	7,194			7,107		6,951		7,059		7,120
400	6,280	6,366	6,390		6,331	6,370	6,346			6,251		6,099		6,207		6,270
500	4,823	4,896	4,913		4,841	4,880	4,876			4,774		4,649		4,780		4,799
600	3,584	3,647	3,664		3,570	3,636	3,632		3,345	3,530		3,437		3,517		3,556
700	2,510	2,559	2,576		2,455	2,539	2,540		2,289	2,460		2,390		2,447		2,476
800	1,568	1,593	1,610		1,458	1,557	1,578		1,378	1,522		1,463		1,509		1,524
900	726	748	755		565	674	719		568	694		646		685		678

Standard level mb	No. 33	(W)	(W)	(W)	(T)	(W)	34	(W)	(W)	35	36	37	38	39		Mean
	GMT 2207						2247			2154	0218	0158	0258	0204		
	Date 6/6	6/7	6/8	6/9	6/10	6/11	6/12	6/13	6/14	6/15	6/16	6/17	6/18	6/19		
100												14,865				14,835
150	12,338						12,454				12,376	12,439				12,409
200	10,586						10,719				10,683	10,713				10,683
250	9,221						9,360				9,377	9,381				9,342
300	8,100						8,234				8,283	8,276		8,210		8,231
350	7,139						7,268				7,317	7,315		7,262		7,270
400	6,291						6,412			6,465	6,453	6,451		6,410		6,414
500	4,834						4,916			4,962	4,950	4,948		4,920		4,922
600	3,601						3,645			3,681	3,669	3,672		3,649		3,653
700	2,518						2,539			2,561	2,549	2,562	2,545	2,548		2,546
800	1,568						1,546			1,568	1,564	1,577	1,575	1,574		1,567
900	730						656			681	681	694	709	708		694

Standard level mb.	No. 40	41	(W)	(W)	42	43	(W)	(W)	44	45	46	47	48	49	(W)	Mean
	GMT 0348	0216			0152	2231			0147	1222	0207	0354	0153	0222		
	Date 6/20	6/21	6/22	6/23	6/24	6/24	6/25	6/26	6/27	6/28	6/29	6/30	7/1	7/2	7/3	
80					15,702											15,852
100					14,435											14,585
150	12,220	12,365			12,069	12,064			12,187		12,337	12,247	12,199	12,288		12,219
200	10,536	10,698			10,356	10,356			10,490		10,612	10,513	10,532	10,584		10,519
250	9,204	9,392			9,010	9,004			9,158		9,253	9,148	9,232	9,252		9,183
300	8,099	8,282			7,916	7,883			8,053		8,132	8,022	8,143	8,147		8,075
350	7,147	7,303			6,968	6,917			7,096		7,166	7,052	7,186	7,190		7,114
400	6,303	6,423			6,124	6,077			6,248		6,310	6,200	6,330	6,338		6,261
500	4,833	4,888			4,674	4,633			4,791	4,786	4,840	4,743	4,840	4,848		4,788
600	3,578	3,591			3,441	3,405			3,552	3,537	3,580	3,494	3,569	3,583		3,533
700	2,495	2,481			2,358	2,353			2,469	2,445	2,488	2,393	2,468	2,482		2,443
800	1,545	1,503			1,404	1,426			1,511	1,491	1,518	1,423	1,498	1,504		1,482
900	696	641			549	588			656	639	656	564	639	635		626

TABLE 3.—*Altitude (in meters above sea level) of certain standard pressure levels for individual radiosonde ascents, with means for each 14-day period*—Continued

Standard level mb.	No. 50	51	52	53	54	55	56	57	58	59	60	61	62	63		Mean
	GMT. 0243	0221	0130	0204	0157	2142	0930	0134	0158	0236	0227	0227	0307	0912		
	Date. 7/4	7/5	7/6	7/7	7/8	7/9	7/10	7/11	7/12	7/13	7/14	7/15	7/16	7/17		
80									15,907							15,825
100									14,627							14,545
150		12,253	12,187	12,101	12,138		12,396	12,411	12,249	12,096		12,130	11,873	11,873		12,167
200		10,569	10,516	10,443	10,509		10,716	10,810	10,532	10,412	10,488	10,467	10,197	10,206		10,501
250	9,269	9,243	9,203	9,156	9,216	9,258	9,403	9,523	9,186	9,093	9,182	9,161	8,884	8,893		9,191
300	8,191	8,149	8,104	8,078	8,111	8,159	8,314	8,418	8,076	7,999	8,088	8,072	7,790	7,810		8,097
350	7,248	7,192	7,152	7,130	7,145	7,198	7,353	7,448	7,119	7,051	7,131	7,124	6,847	6,871		7,144
400	6,400	6,336	6,304	6,282	6,285	6,342	6,493	6,576	6,267	6,211	6,279	6,272	6,010	6,034		6,292
500	4,923	4,846	4,827	4,805	4,795	4,859	4,997	5,054	4,790	4,761	4,802	4,795	4,573	4,590		4,816
600	3,658	3,575	3,567	3,545	3,546	3,594	3,716	3,757	3,535	3,522	3,547	3,535	3,356	3,357		3,558
700	2,534	2,469	2,466	2,448	2,458	2,488	2,596	2,637	2,452	2,439	2,464	2,429	2,300	2,278		2,461
800	1,537	1,495	1,492	1,474	1,492	1,518	1,611	1,655	1,498	1,497	1,518	1,459	1,369	1,332		1,496
900	650	633	626	605	630	666	756	803	663	669	694	617	548	501		647
1,000								56								

Standard level mb.	No. 64	65	66	67	68	69	70	71	72	(W)	(W)	73	74	75	76	Mean
	GMT. 0320	0256	0217	0243	0221	0300	0301	0214	1243			0237	1218	0257	1215	
	Date. 7/18	7/19	7/20	7/21	7/22	7/23	7/24	7/25	7/26	7/27	7/28	7/29	7/29	7/30	7/31	
150		11,700	11,843	12,079	12,067	12,117	12,161							12,210		12,061
200	10,182	10,119	10,172	10,384	10,367	10,413	10,464					10,463	10,392	10,586		10,381
250	8,876	8,813	8,859	9,038	9,028	9,081	9,138		9,193			9,189	9,118	9,293		9,070
300	7,793	7,730	7,776	7,928	7,923	7,976	8,039		8,104			8,106	8,045	8,210		7,979
350	6,854	6,800	6,846	6,971	6,980	7,033	7,082	7,213	7,161			7,158	7,102	7,258		7,035
400	6,017	5,971	6,017	6,131	6,151	6,204	6,234	6,361	6,317			6,306	6,258	6,406		6,195
500	4,580	4,534	4,580	4,687	4,714	4,773	4,784	4,891	4,847			4,829	4,788	4,916		4,741
600	3,352	3,317	3,363	3,448	3,486	3,561	3,583	3,647	3,587			3,569	3,539	3,651	3,470	3,506
700	2,278	2,270	2,307	2,374	2,421	2,505	2,518	2,573	2,481			2,468	2,456	2,554	2,387	2,430
800	1,336	1,351	1,380	1,428	1,483	1,573	1,591	1,638	1,496			1,486	1,490	1,572	1,425	1,481
900	501	523	549	586	652	754	763	803	623			610	628	696	563	635
1,000								56								

Standard level mb.	No. 77	78	79	80	81	82	83	84	85	86	87	88	89	(W)		Mean
	GMT. 1102	1336	0906	0328	0252	0301	0318	1252	0832	0913	1301	0810	0831			
	Date. 8/1	8/2	8/3	8/4	8/5	8/6	8/7	8/8	8/9	8/10	8/11	8/12	8/13	8/14		
150			12,037	11,846		11,942	11,997									12,015
200			10,370	10,179	10,143	10,322	10,339	10,393			10,393	10,401				10,362
250			9,051	8,866	8,843	9,029	9,026	9,080			9,119	9,108	9,411			9,060
300		7,845	7,952	7,772	7,749	7,946	7,927	7,997		8,069	8,036	8,025	8,290			7,966
350		6,902	7,000	6,829	6,801	6,998	6,970	7,054		7,117	7,088	7,082	7,302			7,015
400		6,065	6,156	5,992	5,961	6,150	6,122	6,214		6,261	6,240	6,242	6,418			6,168
500	4,731	4,641	4,693	4,555	4,524	4,667	4,659	4,757	4,694	4,765	4,757	4,785	4,883			4,701
600	3,487	3,429	3,465	3,338	3,307	3,396	3,415	3,513	3,450	3,489	3,486	3,536	3,586			3,454
700	2,408	2,368	2,391	2,282	2,246	2,299	2,327	2,425	2,367	2,388	2,371	2,448	2,457			2,367
800	1,454	1,426	1,445	1,351	1,308	1,329	1,369	1,475	1,413	1,422	1,393	1,482	1,460			1,410
900	595	595	600	527	477	467	524	637	564	560	538	613	567			559

Standard level mb.	No. 90	91	92	93	94	(W)	95	96	(W)	97	98	99		100		Mean
	GMT. 0821	0902	0636	0909	1246		1853	1234		1534	2015	1932		0908		
	Date. 8/15	8/16	8/17	8/18	8/19	8/20	8/21	8/22	8/23	8/24	8/25	8/26	8/27	8/28		
100					14,294						14,332					14,398
150	12,188	12,089	12,112		11,994		12,069	12,089		12,170	12,037			12,188		12,100
200	10,504	10,401	10,437		10,310		10,415	10,418		10,512	10,379			10,530		10,430
250	9,172	9,075	9,105		8,984		9,109	9,092		9,193	9,073	9,132		9,217		9,109
300	8,062	7,970	7,990		7,869		8,015	7,987		8,094	7,974	8,027		8,112		8,004
350	7,092	7,018	7,029		6,903		7,063	7,030		7,142	7,022	7,061		7,146		7,045
400	6,224	6,174	6,185	6,136	6,055		6,215	6,182		6,298	6,178	6,197		6,286		6,194
500	4,721	4,711	4,722	4,659	4,578		4,745	4,719		4,828	4,708	4,701		4,809		4,718
600	3,440	3,451	3,473	3,410	3,307		3,490	3,480		3,563	3,448	3,441		3,554		3,460
700	2,330	2,359	2,385	2,318	2,197		2,393	2,401		2,457	2,347	2,344		2,453		2,362
800	1,364	1,405	1,427	1,364	1,223		1,419	1,447		1,472	1,373	1,374		1,475		1,395
900	519	560	585	519	357		564	598		589	511	515		616		539

Standard level mb.	No. 101	102		103		104	105	106	107		108		109			Mean
	GMT. 0806	0825		0918		0816	0819	0828	2151		0812		2041			
	Date. 8/29	8/30	8/31	9/1	9/2	9/3	9/4	9/5	9/6	9/7	9/8	9/9	9/10	9/11		
150								12,019	12,085				12,150			12,050
200		10,379				10,290		10,356	10,479				10,500			10,410
250		9,066				8,964		9,056	9,160		9,238		9,149			9,088
300	8,001	7,961		7,958		7,854	7,902	7,967	8,045		8,106		8,095			7,988
350	7,049	7,004		7,006		6,897	6,945	7,015	7,088		7,122		7,138			7,029
400	6,205	6,156		6,166		6,057	6,101	6,163	6,236		6,246		6,286			6,180
500	4,748	4,706		4,716		4,613	4,657	4,686	4,753		4,743		4,803			4,714
600	3,504	3,467		3,488		3,380	3,424	3,426	3,488		3,478		3,538			3,466
700	2,416	2,388		2,409		2,310	2,345	2,334	2,382		2,372		2,437			2,377
800	1,454	1,438		1,471		1,364	1,391	1,364	1,404		1,398		1,475			1,418
900	602	593		636		529	549	505	535		539		626			568

TABLE 3.—*Altitude (in meters above sea level) of certain standard pressure levels for individual radiosonde ascents, with means for each 14-day period*—Continued

Standard level mb.																
	No.		110		111	112		113			114			115		
	GMT		0745		0845	2042		0812			0815			0806		Mean
	Date...9/12	9/13	9/14	9/15	9/16	9/17	9/18	9/19	9/20	9/21	9/22	9/23	9/24	9/25		
80						15,893										15,780
100					14,531	14,593										14,480
150					12,200	12,214								12,024		12,125
200			10,453		10,512	10,502		10,396						10,340		10,431
250			9,121		9,186	9,150		9,083						9,014		9,101
300			8,011		8,076	8,024		7,989						7,909		7,992
350			7,054		7,119	7,049		7,037						6,948		7,032
400			6,206		6,271	6,193		6,193						6,092		6,181
500			4,736		4,801	4,736		4,723						4,602		4,710
600			3,487		3,546	3,497		3,490			3,411			3,331		3,460
700			2,399		2,445	2,414		2,416			2,337			2,230		2,374
800			1,445		1,467	1,448		1,462			1,406			1,268		1,416
900			607		605	586		617			568			416		566
Standard level mb.	No.	116		117		118	119	120		121	122	123	124	125		
	GMT	0030		0230		0754	1954	1219		0251	0812	0810	0902	0905		Mean
	Date...9/26	9/27	9/28	9/29	9/30	10/1	10/2	10/3	10/4	10/5	10/6	10/7	10/8	10/9		
60							17,652									17,540
80							15,993									15,881
100							14,700						14,787			14,588
150	12,174					12,086	12,367	12,290			12,385	12,425	12,247			12,240
200	10,524					10,419	10,717	10,610			10,697	10,721	10,526			10,560
250	9,211					9,106	9,430	9,291			9,365	9,389	9,174			9,239
300	8,106					8,017	8,341	8,197			8,255	8,274	8,048	8,088		8,135
350	7,140					7,078	7,389	7,254			7,280	7,308	7,069	7,109		7,173
400	6,280			6,244		6,245	6,537	6,410			6,408	6,444	6,193	6,237		6,314
500	4,797			4,774		4,788	5,047	4,940			4,899	4,954	4,716	4,728		4,830
600	3,532			3,514		3,544	3,771	3,675		3,395	3,628	3,694	3,483	3,468		3,570
700	2,435			2,413		2,456	2,656	2,555		2,289	2,527	2,597	2,404	2,380		2,471
800	1,485			1,431		1,486	1,659	1,558		1,311	1,549	1,623	1,446	1,418		1,497
900	633			544		606	766	661		456	676	757	587	569		626
Standard level mb.	No.	126	(W)	127	(T)	(T)	(T)	(T)	128	(T)	(T)	129	(W)	130	(T)		
	GMT	0811		1,908					0845			0911		1903			Mean [1]
	Date...10/10	10/11	10/12	10/13	10/14	10/15	10/16	10/17	10/18	10/19	10/20	10/21	10/22	10/23		
80			16,004													
100			14,645													
150			12,210								12,156					
200			10,489								10,447					
250	9,225		9,143								9,128					
300	8,110		8,044					7,993			8,039					
350	7,144		7,096					7,041			7,096					
400	6,284		6,244					6,197			6,252					
500	4,788		4,754					4,727			4,782					
600	3,517		3,478					3,467			3,517					
700	2,420		2,363					2,352			2,407		2,587			
800	1,454		1,378					1,359			1,429		1,587			
900	599		502					479			556		671			
Standard level mb.	No.	(T)	131	(T)	(T)	(T)	132	(T)	133	(T)	(T)	(T)	(T)	(W)		
	GMT		2019				0842		1829							Mean
	Date...10/24	10/25	10/26	10/27	10/28	10/29	10/30	10/31	11/1	11/2	11/3	11/4	11/5	11/6		
40									21,586							21,089
60			18,352						18,763							18,266
80			16,448						16,826							16,345
100			15,011						15,349							14,921
150			12,467						12,730							12,388
200			10,719				10,734		10,915							10,640
250			9,380				9,356		9,511							9,283
300			8,275				8,235		8,364							8,170
350			7,305				7,260		7,385							7,208
400			6,437				6,392		6,513							6,350
500			4,921				4,883		4,991							4,854
600			3,624				3,602		3,688							3,575
700			2,486				2,478		2,550							2,455
800			1,481				1,485		1,541							1,463
900			591				595		641							579
Standard level mb.	No.	135	(T)	136	137	138	139	140	141	142	143	144	145	146	147		
	GMT	0854		0811	0835	0851	0386	0821	0756	1305	1254	1248	1253	1308	1317		Mean
	Date... 11/7	11/8	11/9	11/10	11/11	11/12	11/13	11/14	11/15	11/16	11/17	11/18	11/19	11/20		
60			18,928	18,839	19,091				19,033	19,045	19,184	19,325		19,395		19,113
80			16,948	16,859	17,111				17,011	17,040	17,188	17,312		17,373		17,113
100			15,426	15,356	15,595	15,564	15,594		15,462	15,498	15,639	15,757	15,752	15,818		15,577
150			12,758	12,683	12,904	12,830	12,855	12,790	12,718	12,754	12,871	12,966	12,966	13,009		12,836
200			10,926	10,838	11,046	10,968	10,972	10,902	10,826	10,879	10,970	11,032	11,048	11,058		10,949
250	9,443		9,541	9,427	9,622	9,544	9,541	9,465	9,389	9,448	9,533	9,569	9,591	9,581		9,515
300	8,295		8,409	8,274	8,464	8,386	8,388	8,291	8,250	8,290	8,375	8,400	8,427	8,407		8,358
350	7,325		7,425	7,295	7,476	7,407	7,400	7,294	7,262	7,311	7,391	7,407	7,443	7,419		7,373
400	6,449		6,545	6,431	6,608	6,539	6,516	6,422	6,398	6,455	6,515	6,531	6,563	6,547		6,501
500	4,940		5,023	4,941	4,987	5,043	4,994	4,926	4,915	4,952	5,006	5,028	5,047	5,038		4,988
600	3,653		3,731	3,681	3,716	3,762	3,707	3,645	3,655	3,681	3,725	3,747	3,766	3,762		3,710
700	2,524		2,611	2,580	2,596	2,638	2,583	2,521	2,549	2,571	2,610	2,641	2,651	2,642		2,594
800	1,531		1,618	1,598	1,603	1,641	1,582	1,524	1,567	1,582	1,617	1,656	1,662	1,649		1,602
900	641		731	718	720	751	682	631	687	695	724	776	779	759		715

[1] Data combined with following period into single set of means.

TABLE 3.—*Altitude (in meters above sea level) of certain standard pressure levels for individual radiosonde ascents, with means for each 14-day period*—Continued

Standard level mb.	No. 148	149	(W)	150	151	(W)	(W)	152	153	154	(W)	(W)	(W)	(W)		Mean
	GMT 1334	1405		1243	1843			1918	1840	1244						
	Date 11/21	11/22	11/23	11/24	11/25	11/26	11/27	11/28	11/29	11/30	12/1	12/2	12/3	12/4		
60								19,557								19,492
80	17,315	17,376			17,525			17,518	17,601							17,453
100	15,773	15,827		15,893	15,937			15,956	16,020							15,889
150	12,995	13,023		13,067	13,075			13,136	13,176	12,993						13,066
200	11,053	11,077		11,023	11,073			11,131	11,162	11,042						11,080
250	9,576	9,600		9,545	9,557			9,589	9,627	9,552						9,578
300	8,386	8,404		8,339	8,340			8,356	8,394	8,362						8,369
350	7,416	7,393		7,342	7,320			7,322	7,365	7,360						7,360
400	6,560	6,506		6,462	6,433			6,419	6,478	6,484						6,477
500	5,044	4,977		4,940	4,930			4,884	4,969	4,981						4,961
600	3,773	3,690		3,653	3,659			3,619	3,698	3,716						3,687
700	2,658	2,570		2,543	2,558			2,522	2,588	2,615						2,579
800	1,665	1,581		1,554	1,569			1,533	1,599	1,633						1,591
900	778	698		664	676			636	706	750						701

Standard level mb.	No. (W)	155	156	157	158	159	160	161	162	163	164	165	166	167		Mean
	GMT	1348	1416	1244	1405	1404	1301	1338	1356	1247	1450	1240	1245	1247		
	Date 12/5	12/6	12/7	12/8	12/9	12/10	12/11	12/12	12/13	12/14	12/15	12/16	12/17	12/18		
60					19,369					19,500			19,472			19,470
80		17,343	17,470	17,525	17,364			17,533	17,496	17,512	17,532	17,563	17,484			17,477
100		15,801	15,921	15,957	15,815			16,004	15,974	15,983	15,990	16,021	15,949			15,936
150		13,039	13,130	13,147	13,029		13,166	13,273	13,249	13,246	13,228	13,260	13,176			13,172
200		11,118	11,208	11,205	11,104		11,237	11,348	11,324	11,321	11,291	11,310	11,226			11,240
250		9,661	9,764	9,742	9,667	9,702	9,760	9,891	9,854	9,851	9,808	9,814	9,730			9,772
300		8,503	8,622	8,594	8,525	8,538	8,570	8,727	8,674	8,671	8,623	8,624	8,529			8,602
350		7,515	7,638	7,606	7,541	7,550	7,564	7,712	7,663	7,656	7,626	7,618	7,523			7,603
400		6,631	6,754	6,726	6,657	6,666	6,677	6,801	6,760	6,753	6,735	6,727	6,639			6,712
500		5,096	5,205	5,191	5,122	5,131	5,135	5,220	5,205	5,191	5,186	5,185	5,149	5,190		5,170
600		3,793	3,886	3,872	3,825	3,828	3,838	3,885	3,886	3,872	3,878	3,877	3,857	3,898		3,861
700		2,664	2,735	2,721	2,687	2,686	2,700	2,743	2,739	2,725	2,736	2,735	2,728	2,769		2,721
800		1,659	1,718	1,704	1,678	1,673	1,691	1,738	1,726	1,708	1,727	1,722	1,727	1,768		1,711
900		752	797	786	767	769	787	834	812	797	820	811	823	808		802
1,000														50		

Standard level mb.	No. 168	169	170	171	172	173		174		175		176		177	178	Mean
	GMT 1246	1242	1245	0048	1245	1254		1304		1245		1300		1332	1322	
	Date 12/19	12/20	12/21	12/22	12/22	12/23	12/24	12/25	12/26	12/27	12/28	12/29	12/30	12/31	1/1	
20					27,272					27,449					27,123	27,242
40					22,409					22,566					22,304	22,387
60				19,672	19,589					19,753					19,502	19,569
80		17,529		17,667	17,601	17,421				17,737					17,522	17,577
100		16,007		16,125	16,072	15,892				16,195		16,112			15,987	16,043
150	13,253	13,263		13,352	13,306	13,126		13,263		13,411		13,322		13,235	13,214	13,273
200	11,332	11,338		11,389	11,356	11,176		11,330		11,448		11,342		11,268	11,264	11,322
250	9,869	9,868		9,873	9,866	9,673		9,834		9,919		9,813		9,759	9,761	9,822
300	8,695	8,688		8,651	8,681	8,461		8,617		8,675		8,585		8,535	8,544	8,611
350	7,675	7,682	7,573	7,622	7,661	7,455		7,588		7,641		7,570		7,515	7,533	7,592
400	6,772	6,791	6,670	6,723	6,758	6,583		6,693		6,730		6,679		6,631	6,646	6,698
500	5,217	5,236	5,148	5,188	5,203	5,080		5,164		5,155		5,124		5,102	5,104	5,156
600	3,909	3,912	3,856	3,880	3,890	3,799		3,877		3,815		3,789		3,799	3,801	3,848
700	2,771	2,765	2,718	2,738	2,748	2,689		2,753		2,655		2,624		2,661	2,668	2,708
800	1,770	1,756	1,705	1,721	1,739	1,704		1,760		1,632		1,590		1,652	1,655	1,699
900	870	852	794	807	835	821		867		714		678		741	741	793
1,000	43							59								

Standard level mb.	No.	179	180	181	182	(T)	183	184	185	186	187	188	189	190		Mean
	GMT	1416	1300	1400	1343		1243	1333	1324	1350	1427	1411	1924	1441		
	Date 1/2	1/3	1/4	1/5	1/6	1/7	1/8	1/9	1/10	1/11	1/12	1/13	1/14	1/15		
60		19,483	19,570	19,427									19,655			19,528
80		17,487	17,540	17,439	17,451				17,439				17,633			17,520
100		15,945	15,978	15,897	15,902				15,897				16,084			15,972
150		13,172	13,169	13,118	13,118		13,068		13,113			13,319	13,305	13,208		13,187
200		11,222	11,206	11,168	11,163		11,105		11,154			11,394	11,359	11,266		11,237
250		9,732	9,703	9,691	9,667		9,596	9,594	9,645			9,924	9,902	9,796		9,750
300		8,550	8,513	8,527	8,498		8,384	8,361	8,433		8,769	8,750	8,722	8,622		8,561
350		7,557	7,525	7,530	7,510		7,364	7,332	7,418		7,774	7,730	7,697	7,597		7,550
400		6,677	6,649	6,639	6,623		6,469	6,411	6,527	6,692	6,829	6,819	6,782	6,682		6,650
500		5,148	5,120	5,097	5,087		4,940	4,889	4,992	5,150	5,254	5,244	5,194	5,107		5,102
600		3,845	3,812	3,794	3,784		3,643	3,602	3,689	3,842	3,919	3,909	3,848	3,767		3,788
700		2,701	2,670	2,652	2,646		2,514	2,478	2,560	2,700	2,763	2,753	2,679	2,607		2,644
800		1,692	1,657	1,639	1,633		1,517	1,473	1,559	1,691	1,746	1,736	1,647	1,586		1,631
900		778	746	728	733		630	576	659	780	835	829	733	672		725

TABLE 4.—*Extremes of absolute and 14-day mean values of pressure and temperature at standard elevations, m. s. l., from radiosonde observations*

Elevation, meters, m. s. l.		Extremes of mean values, by 14-day periods					Absolute extremes, from individual ascents				
		High	Period	Low	Period	Range	High	Date	Low	Date	Range
22,000	mb	42	18	32	14	10	44	12/27	38	11/1	6
	−C°	33.8	14	36.8	18	3.0	29.0	11/1	36.4	1/1	7.4
21,000	mb	48	18	37	14	11	50	12/27	43	11/1	7
	−C°	31.0	15	37.4	18	6.4	29.6	11/18	37.0	1/1	7.4
20,000	mb	57	16, 19	44	14	13	58	12/27	50	11/1	8
	−C°	29.5	16	40.7	14	11.2	28.4	11/28	37.4	1/1	9.0
19,000	mb	66	16, 19	50	1	16	67	12/27	52	4/29	15
	−C°	31.4	16	65.3	1	33.9	28.1	11/25	65.2	4/29	37.1
18,000	mb	76	16	51	12	25	77	12/27	57	10/2	20
	−C°	32.8	16	72.6	2	39.8	29.2	11/25	74.2	5/18	45.0
17,000	mb	87	15, 16, 18, 19	61	12	26	89	12/27	67	9/17; 10/2	22
	−C°	33.6	16	79.8	11	46.2	30.3	11/25	76.0	10/2	45.7
16,000	mb	101	18	74	12	27	103	12/27	79	7/12; 9/17	24
	−C°	34.9	16	79.0	11	44.1	31.5	11/25	79.3	7/12	47.8
15,000	mb	116	18, 19	89	12	27	119	12/27	91	6/24	28
	−C°	35.2	16	81.7	6	46.5	31.7	11/25	79.5	6/24	47.8
14,000	mb	135	18	107	7, 12	28	138	12/27	106	8/19, 25	32
	−C°	35.7	16	82.8	7	47.1	32.1	11/25	82.1	8/19	50.0
13,000	mb	156	18	122	8	34	159	12/27	126	8/19	33
	−C°	36.4	16	80.8	8	44.4	33.0	11/25	83.6	7/30	50.6
12,000	mb	181	18	151	8, 10	30	184	12/27	144	7/19	40
	−C°	38.1	16	79.6	8	41.5	33.8	11/29	82.1	7/11	48.3
11,000	mb	210	18	180	7, 8	30	214	12/27	172	7/19, 8/5	42
	−C°	40.1	16	78.2	8	38.1	35.3	11/28	82.5	7/11	47.2
10,000	mb	244	18	214	7, 8	30	248	12/27; 1/13	204	7/19	44
	−C°	43.0	16	75.0	8	32.0	38.4	11/28; 12/27	79.0	7/29	40.6
9,000	mb	283	18	252	8	31	290	1/12	242	7/19; 8/5	48
	−C°	46.4	16	70.9	8	24.5	41.0	11/29	74.8	7/29	33.8
8,000	mb	329	17, 18	298	8	31	338	1/12	286	7/19	52
	−C°	48.3	19	66.3	7	18.0	43.6	12/21	69.8	7/20	26.2
7,000	mb	384	17	351	8, 10	33	391	1/12	338	7/19	53
	−C°	43.0	19	61.1	7	18.1	37.0	1/14	65.2	7/19, 20	28.2
6,000	mb	444	17	411	8, 10, 11	33	450	1/12, 13	396	7/19	54
	−C°	36.8	19	54.4	7	17.6	30.1	1/14	58.0	7/19	27.9
5,000	mb	512	17	478	8, 11	34	517	12/20; 1/12, 13	465	8/5	52
	−C°	30.4	19	47.8	7	17.4	23.9	1/14	53.3	8/2	29.4
4,000	mb	588	17	554	8	34	593	12/20; 1/12, 13	542	8/5	51
	−C°	23.9	19	40.9	7	17.0	18.4	1/14	46.4	8/2	28.0
3,000	mb	674	17	640	8, 9	34	678	12/18, 19, 20; 1/12	626	8/19	52
	−C°	18.3	19	35.3	7	17.0	12.3	1/14	41.1	7/19	28.8
2,500	mb	721	17	687	8, 9	34	725	12/18, 19	672	8/19	53
	−C°	15.6	19	33.0	7	17.4	10.0	1/14	40.3	7/19	30.3
2,000	mb	770	17	735	11	35	776	12/18, 19	718	8/19	58
	−C°	13.3	19	31.3	7	18.0	8.1	1/14	39.6	7/19	31.5
1,500	mb	822	17	788	9	34	828	12/18, 19	770	8/19	58
	−C°	10.8	17	29.4	7	18.6	7.3	12/29; 1/14	40.4	5/31	33.1
1,000	mb	878	17	845	9	33	886	12/19	825	8/19	61
	−C°	8.2	17	27.9	7	19.7	4.3	12/7	38.3	5/31	34.0
500	mb	936	17	905	9	31	944	12/19, 25	883	8/19	61
	−C°	5.5	18	29.7	10	24.2	2.0	12/7	41.6	6/3	39.6
Sfc.	mb	993	17	965	9	28	1007	5/15	940	8/19	67
	−C°	−3.1	18	51.4	10	48.3	+3.7	12/22	58.5	9/1	62.2

TABLE 5.—*Absolute range of pressure and temperature at standard elevations, m. s. l., by 14-day periods, from radiosonde observations*

Elevation, meters, m. s. l.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
22,000	mb	------	------	------	------	------	------	------	------	------	------	------	------	------	0	------	------	------	2	------
	C°	------	------	------	------	------	------	------	------	------	------	------	------	------	0	------	------	------	4.4	------
21,000	mb	------	------	------	------	------	------	------	------	------	------	------	------	------	0	2	------	------	2	------
	C°	------	------	------	------	------	------	------	------	------	------	------	------	------	0	0.3	------	------	4.0	------
20,000	mb	------	------	------	------	------	------	------	------	------	------	------	------	------	0	4	0	1	2	2
	C°	------	------	------	------	------	------	------	------	------	------	------	------	------	0	4.2	0	2.4	3.4	2.2
19,000	mb	1	------	------	------	------	------	------	------	------	------	------	------	------	3	5	0	2	2	2
	C°	0.9	------	------	------	------	------	------	------	------	------	------	------	------	1.1	4.8	2.2	5.4	2.9	5.2
18,000	mb	0	0	------	------	------	------	------	------	------	------	------	0	------	4	5	3	2	3	2
	C°	3.1	0	------	------	------	------	------	------	------	------	------	0	------	2.7	4.6	7.5	3.5	2.2	4.1
17,000	mb	4	b	0	------	------	------	------	------	------	------	0	0	------	4	6	3	3	4	3
	C°	7.4	3.1	0	------	------	------	------	------	------	------	0	0	------	3.6	5.8	5.7	5.9	2.3	2.9
16,000	mb	4	6	0	------	------	0	------	------	------	------	0	0	0	5	7	3	2	4	2
	C°	7.6	3.3	1.5	------	------	0	------	------	------	------	0	0	0	4.0	7.9	6.5	7.1	2.7	3.0
15,000	mb	7	7	1	0	0	0	------	------	------	------	0	1	0	6	6	3	4	5	3
	C°	7.6	2.8	2.1	0	0	0	------	------	------	------	0	2.6	0	4.3	9.8	7.1	7.1	4.2	2.0
14,000	mb	8	8	2	2	4	5	0	------	0	------	1	1	0	6	8	3	4	5	4
	C°	6.3	1.7	5.1	4.8	4.9	4.8	0	------	1.4	------	3.8	0.8	0	3.9	12.4	6.7	6.9	5.4	1.7
13,000	mb	8	11	2	3	6	8	2	0	4	0	1	8	0	7	7	3	5	7	7
	C°	8.1	1.7	6.1	2.1	6.7	8.4	9.7	0	4.5	0	3.8	4.0	0	7.5	14.1	6.8	4.7	5.8	4.6
12,000	mb	10	12	6	4	10	16	12	4	5	3	5	10	2	7	9	2	6	8	7
	C°	8.4	1.8	8.3	7.3	6.4	13.0	10.1	4.8	6.7	1.7	3.8	9.4	1.2	7.2	13.8	8.8	4.0	7.7	5.1
11,000	mb	12	13	6	7	11	20	14	8	7	8	5	10	2	6	7	3	7	8	9
	C°	11.8	3.4	10.7	7.2	9.1	13.8	10.7	6.5	4.0	2.2	4.2	8.8	2.0	10.3	13.0	10.2	7.8	9.2	5.9
10,000	mb	13	15	7	6	17	24	18	21	8	8	7	11	4	7	8	2	9	10	12
	C°	13.9	7.1	14.9	4.8	10.2	9.8	11.0	7.6	4.2	4.2	7.2	9.7	3.7	10.5	13.0	10.0	9.4	13.5	15.4
9,000	mb	18	17	10	7	17	28	20	25	9	12	6	14	6	8	10	3	10	10	17
	C°	15.0	8.2	11.6	5.1	8.1	8.5	8.6	9.0	3.6	8.5	6.9	7.5	5.0	6.8	8.6	9.9	12.0	11.8	11.3
8,000	mb	23	17	14	10	20	32	26	26	14	12	7	15	7	8	10	4	12	12	22
	C°	12.6	6.2	6.6	6.2	7.0	10.0	7.0	11.5	4.2	8.4	5.9	9.0	4.7	3.3	4.6	9.0	8.6	6.7	11.2
7,000	mb	25	22	18	10	20	33	28	27	13	14	10	18	5	7	12	6	9	13	23
	C°	15.0	8.0	3.2	4.8	11.1	12.9	9.1	14.5	6.6	8.6	4.1	11.3	5.0	1.7	6.5	6.7	8.8	11.8	10.8
6,000	mb	25	21	19	11	21	35	30	29	14	13	10	22	5	9	10	9	10	12	24
	C°	14.5	8.6	6.4	8.1	14.4	15.6	10.2	17.0	7.5	10.5	1.5	10.9	4.8	1.7	7.5	6.4	10.6	10.6	12.3
5,000	mb	21	21	20	8	20	35	28	27	18	14	13	23	4	8	9	12	10	11	25
	C°	14.2	11.7	9.5	10.4	15.9	17.7	11.3	19.8	7.2	9.2	4.4	9.1	3.7	3.4	6.8	4.8	9.8	11.4	12.1
4,000	mb	31	23	20	6	27	34	29	25	20	14	16	31	4	8	9	13	10	10	25
	C°	19.0	16.2	12.2	9.7	13.1	17.6	10.7	17.7	7.6	7.3	7.2	10.7	3.5	4.3	6.4	7.6	7.2	10.3	11.6
3,000	mb	28	26	27	5	17	35	29	22	23	14	19	33	5	7	10	14	10	12	27
	C°	19.7	18.9	15.4	8.5	12.7	16.3	12.9	16.2	6.6	8.8	6.7	9.4	5.2	3.9	5.1	6.3	5.0	9.7	10.9
2,500	mb	27	26	28	3	14	34	32	20	24	13	19	34	22	7	12	13	11	14	27
	C°	20.7	20.4	17.0	7.4	13.9	18.4	15.6	17.0	6.4	8.0	8.6	11.3	10.3	4.4	5.9	3.8	3.9	10.0	9.1
2,000	mb	28	26	28	5	16	35	32	19	26	12	20	36	22	7	12	13	13	16	28
	C°	22.2	20.9	20.5	11.8	14.3	18.2	18.5	17.1	8.3	10.4	12.4	12.9	11.8	3.6	4.8	3.1	5.2	10.4	9.0
1,500	mb	26	25	27	3	16	37	34	19	27	12	21	36	23	8	14	15	12	18	30
	C°	21.5	22.0	25.6	14.9	12.5	19.4	17.5	18.2	12.1	11.5	12.3	15.6	13.5	3.4	9.0	4.7	5.4	12.0	11.7
1,000	mb	25	27	25	6	17	38	36	20	30	16	25	36	23	7	15	16	13	22	31
	C°	24.9	23.4	24.0	15.9	9.1	18.7	14.8	19.4	11.5	9.1	7.3	15.6	15.7	6.1	5.5	6.2	6.4	10.0	7.9
500	mb	25	30	27	12	18	39	40	22	33	17	24	37	23	6	17	17	14	24	32
	C°	26.3	29.8	27.6	15.4	6.3	18.5	15.9	21.3	14.8	9.8	8.9	18.3	18.1	2.0	5.5	9.1	7.0	6.2	10.4
Sfc.	mb	22	38	31	15	22	40	39	22	35	16	30	37	22	7	18	21	16	27	31
	C°	32.8	46.7	28.3	20.7	18.0	38.6	36.1	22.7	24.4	21.4	31.0	27.7	19.5	6.1	10.7	10.3	11.7	17.0	8.6

NOTE: Data above 22,000 given in table for period 18 (December 19–January 1).

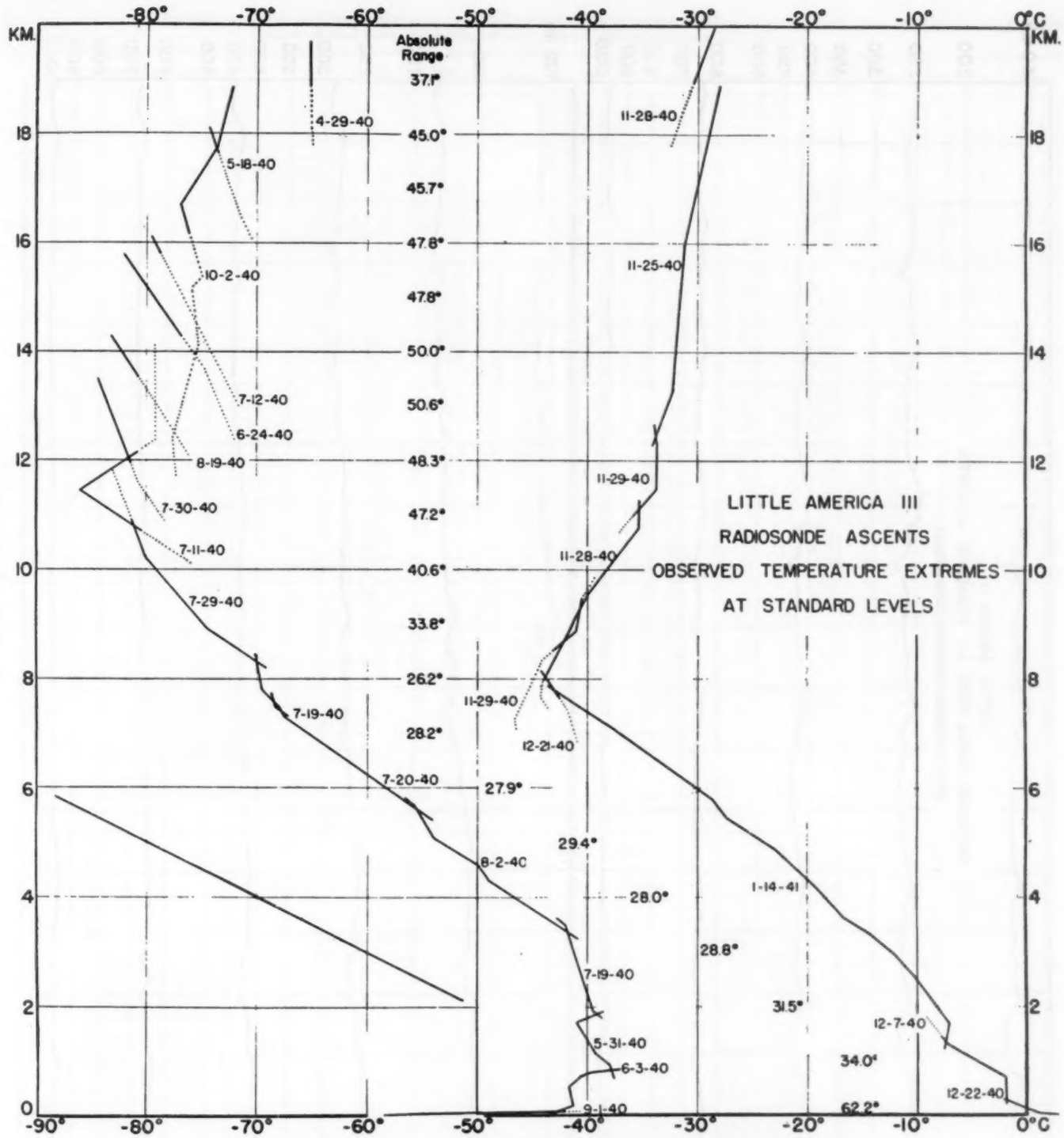

FIGURE 2.—Radiosonde ascent summary: temperature extremes observed at standard levels.

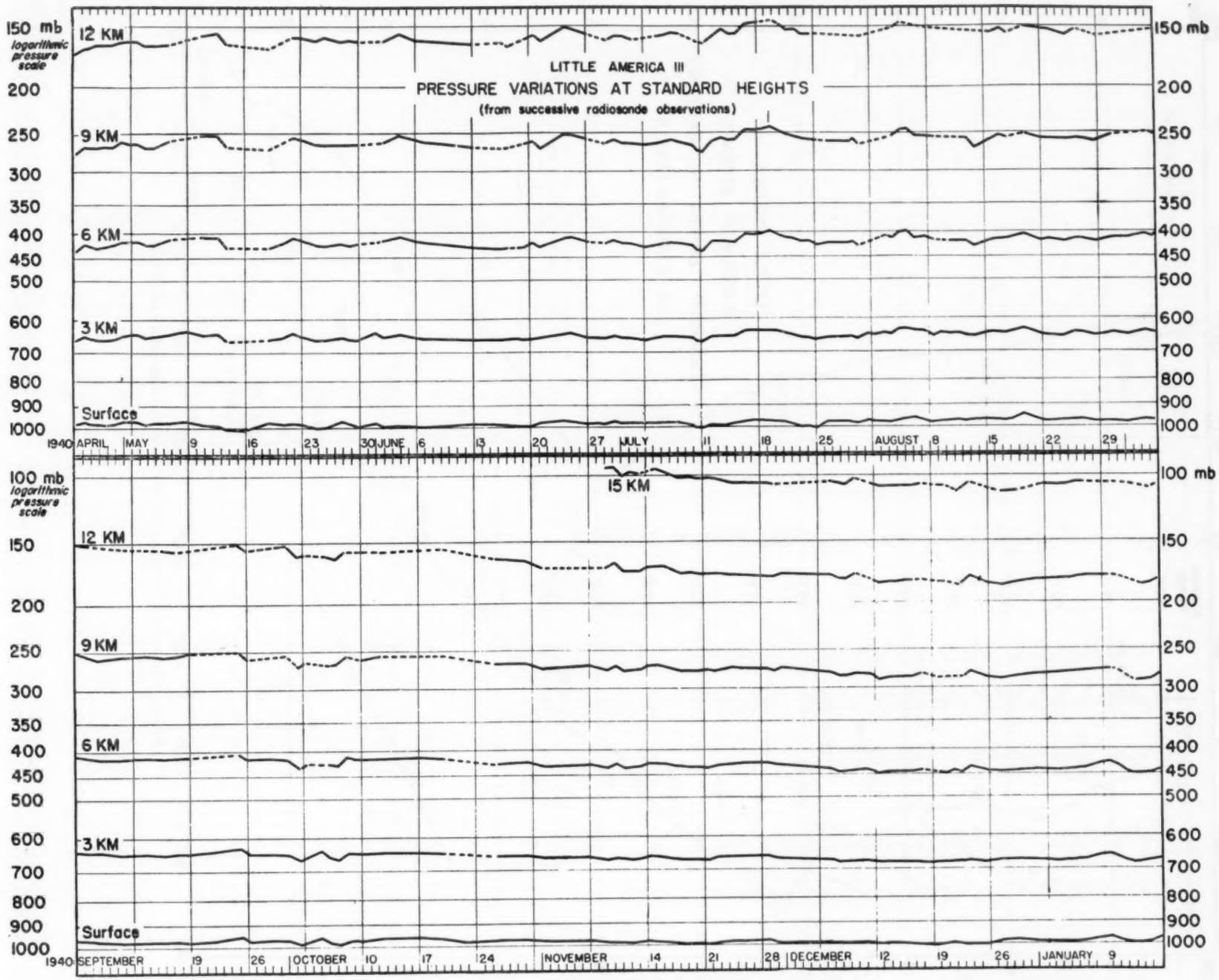

FIGURE 3.—Radiosonde ascent summary: pressure variations at standard heights.

TABLE 6.—*Means of free-air pressures and temperatures at standard elevations for calendar months, 1940–41. Number of observations for each month at each level are indicated on left-hand side of each monthly column*

Elevation, meters, m. s. l.		April*	May	June	July	August	September	October	November	December	January
22,000	mb								1 42	3 42	1 43
	−C°								1 25.8	3 31.9	1 32.6
21,000	mb								3 47	3 48	1 49
	−C°								3 28.9	3 32.4	1 33.2
20,000	mb								8 54	5 56	4 57
	−C°								8 31.3	5 33.3	4 33.6
19,000	mb	1 54	1 48					1 48	11 62	9 65	6 66
	−C°	1 62.5	1 73.8					1 55.0	11 33.1	9 34.5	6 34.6
18,000	mb	2 64	2 57					2 56	14 72	13 75	7 76
	−C°	2 62.3	2 72.5					2 59.7	14 34.5	13 35.9	7 35.3
17,000	mb	3 75	4 69				1 63	2 66	16 82	15 87	7 87
	−C°	3 61.7	4 71.0				1 80.2	2 63.3	16 35.6	15 37.1	7 36.3
16,000	mb	3 88	5 81		1 75		1 75	3 79	18 95	16 100	7 100
	−C°	3 60.7	5 68.9		1 84.8		1 79.4	3 64.9	18 37.1	16 38.2	7 37.3
15,000	mb	3 103	9 97	3 96	1 90		1 90	4 93	18 110	18 116	7 116
	−C°	3 59.7	9 67.3	3 74.0	1 82.2		1 78.5	4 66.2	18 38.7	18 39.4	7 38.2
14,000	mb	3 121	12 115	8 114	5 108	2 107	2 107	4 111	18 127	20 134	7 134
	−C°	3 58.8	12 65.6	8 71.5	5 79.8	2 78.6	2 77.7	4 67.4	18 40.5	20 40.4	7 39.1
13,000	mb	5 141	15 135	12 134	13 129	8 128	3 127	5 132	19 148	20 155	10 154
	−C°	5 58.4	15 64.0	11 69.6	13 77.8	8 76.4	3 76.8	5 69.6	19 43.1	20 41.5	10 40.2
12,000	mb	7 166	17 159	14 159	21 154	13 152	7 152	10 156	20 172	20 180	10 179
	−C°	7 58.1	17 62.7	14 68.1	21 76.1	13 74.4	6 75.4	10 68.9	20 45.9	20 42.6	10 41.5
11,000	mb	7 194	17 187	14 188	23 183	16 181	8 181	10 186	20 200	20 209	10 208
	−C°	7 58.8	17 61.9	13 66.8	23 74.5	16 72.4	7 73.2	10 68.7	20 47.9	20 44.4	10 43.3
10,000	mb	7 228	17 220	14 222	25 217	19 214	10 215	11 220	20 233	21 243	11 241
	−C°	6 57.9	17 63.0	12 65.7	25 72.6	19 69.6	9 70.8	11 68.2	20 50.4	21 47.4	10 47.0
9,000	mb	7 267	17 258	14 260	27 256	21 253	11 254	11 260	21 274	21 283	12 280
	−C°	6 57.9	17 63.6	13 64.5	27 69.7	20 69.5	11 67.4	11 66.0	20 52.8	21 51.4	11 50.8
8,000	mb	7 312	17 304	15 306	28 302	22 299	13 300	13 307	21 317	22 329	12 327
	−C°	7 56.8	17 60.8	14 61.0	27 64.8	22 64.2	13 62.7	13 61.7	20 52.8	22 49.0	12 48.8
7,000	mb	7 365	18 356	15 358	28 355	23 351	13 352	13 360	21 371	22 383	13 380
	−C°	7 52.1	18 56.7	14 55.9	28 58.5	23 58.3	13 56.9	13 54.6	20 49.1	22 43.6	13 43.2
6,000	mb	7 425	18 416	16 419	28 416	24 412	14 412	13 420	21 431	22 444	13 440
	−C°	7 46.0	18 50.6	16 50.0	28 51.4	24 51.9	14 51.7	13 47.6	20 43.8	22 37.3	13 36.9
5,000	mb	7 493	18 484	17 487	28 484	25 479	14 479	13 488	21 498	23 512	13 507
	−C°	7 39.2	18 44.7	17 43.5	28 44.5	25 45.0	14 44.6	13 40.4	21 37.4	23 30.9	13 30.5
4,000	mb	7 569	20 561	17 563	29 561	26 555	14 556	14 565	21 575	23 588	13 583
	−C°	7 32.8	20 38.6	17 37.0	29 37.7	26 38.0	14 37.5	14 33.4	21 31.6	23 24.6	13 24.9
3,000	mb	7 655	21 648	18 650	29 648	26 640	15 641	14 650	21 661	23 674	13 667
	−C°	7 25.9	21 32.7	18 31.4	29 31.9	26 31.6	15 31.5	13 27.1	21 25.1	23 18.6	13 18.3
2,500	mb	7 701	22 694	18 697	29 694	26 687	15 688	15 696	21 708	23 720	13 713
	−C°	7 22.3	22 30.3	18 28.8	29 29.5	26 29.1	15 29.0	14 24.4	21 21.7	23 16.3	13 15.6
2,000	mb	7 750	22 746	18 748	29 745	26 737	15 738	15 746	21 758	23 770	13 762
	−C°	7 19.6	22 28.3	18 27.3	29 27.8	26 27.2	14 27.6	15 21.6	21 18.9	23 13.8	13 13.3
1,500	mb	7 801	22 799	18 802	29 799	26 790	15 790	15 798	21 810	23 822	13 814
	−C°	6 17.3	22 26.4	18 25.3	28 26.9	26 26.0	14 26.6	15 19.7	21 16.8	23 11.1	13 11.1
1,000	mb	7 857	22 857	18 859	29 857	26 846	15 848	15 854	21 866	23 882	13 868
	−C°	6 15.6	22 26.4	18 24.7	26 26.8	26 25.8	15 25.7	15 19.0	21 14.8	23 8.4	13 9.8
500	mb	7 916	22 919	18 920	29 918	26 906	15 909	15 913	21 925	23 936	13 927
	−C°	6 17.1	22 27.5	18 25.3	28 28.0	26 25.9	15 27.8	15 18.0	21 13.2	22 6.2	13 8.3
Sfc.	mb	7 976	22 981	18 982	29 980	26 968	15 970	15 972	21 983	23 993	13 984
	−C°	7 23.7	22 37.3	18 35.8	29 34.4	26 35.2	15 45.4	15 28.2	21 12.4	23 7.7	13 7.6

*April 25–30 only; January 1–15 only.
NOTE: Data above 22,000 given in table for period Dec. 19 to Jan. 1.

TABLE 7.—*Comparison of mean values (by 14-day periods) of surface pressure and temperature for radiosonde ascents with mean values derived from regular surface observations and barographs and thermographs*

Period Number	Dates (1940–41)	Mean Temperatures				Mean Pressures				
		Surface Air		Raob	Diffs.	Station Pressure		Raob	Diffs.	Sea Level
		° F	° C	° C	° C	in.	mb.	mb.	mb.	mb.
21	Feb. 1 to Feb. 14	8.8	−12.9			29.426	996.5			1000.3
22	Feb. 15 to Feb. 28	11.5	−11.4			29.454	997.4			1001.2
23	Feb. 29 to March 13	2.3	−16.5			29.415	996.1			1000.0
24	March 14 to March 27	6.7	−14.1			29.068	984.3			988.0
25	March 28 to April 10	−6.7	−21.5			29.321	992.9			996.9
26	April 11 to April 24	−17.2	−27.3			28.943	980.1			984.1
1	April 25 to May 8	−29.1	−33.9	−33.0	0.9	28.793	975.0	975	0	979.1
2	May 9 to May 22	−31.5	−33.3	−35.1	0.2	29.110	985.8	986	0	990.0
3	May 23 to June 5	−29.1	−33.9	−38.5	−4.6	29.062	984.2	986	2	988.2
4	June 6 to June 19	−29.0	−33.9	−38.6	−4.7	29.070	984.4	986	2	988.5
5	June 20 to July 3	−13.8	−25.4	−30.1	−4.7	28.803	975.4	977	2	979.3
6	July 4 to July 17	−33.1	−36.2	−36.2	0.0	28.939	980.0	981	1	984.2
7	July 18 to July 31	−25.1	−31.7	−32.6	−0.9	28.924	979.5	979	−1	983.6
8	Aug. 1 to Aug. 14	−30.4	−34.7	−34.6	0.1	28.577	967.7	968	0	971.8
9	Aug. 15 to Aug. 28	−29.4	−34.1	−34.7	−0.6	28.563	967.3	965	−2	971.3
10	Aug. 29 to Sept. 11	−60.0	−51.1	−51.4	−0.3	28.724	972.7	972	−1	977.2
11	Sept. 12 to Sept. 25	−41.6	−40.9	−42.8	−1.9	28.607	968.7	970	1	972.9
12	Sept. 26 to Oct. 9	−12.7	−24.8	−26.5	−1.7	28.732	973.0	975	3	977.3
13	Oct. 10 to Oct. 23	−9.0	−22.8			28.514	965.6			969.4
14	*Oct. 24 to Nov. 6	−7.4	−21.9	−28.8	−6.5	28.819	976.0	968	−3	979.9
15	Nov. 7 to Nov. 20	9.5	−12.5	−12.1	0.4	29.078	984.7	984	−1	988.4
16	Nov. 21 to Dec. 4	9.9	−12.3	−11.0	1.3	29.033	983.2	982	−1	986.9
17	Dec. 5 to Dec. 18	15.6	−9.1	−11.1	−2.0	29.328	993.1	993	0	996.9
18	Dec. 19 to Jan. 1	25.7	−3.5	−3.1	0.4	29.228	989.7	991	1	993.4
19	Jan. 2 to Jan. 15	19.0	−7.2	−8.2	−1.0	29.060	984.1	984	0	987.6
20	Jan. 16 to Jan. 29	14.8	−9.6			28.926	979.5			983.2

*Raob values, and differences, for periods 13 and 14 are combined.
Mean Raob release temperatures averaged 1.4° C colder than "true" value; mean deviation 2.6° C.
Mean Raob release pressures averaged 0.2 mbs. less than "true" value; mean deviation 1.5 mbs.

FIGURE 3.—Radiosonde ascent summary: pressure variations at standard heights.

PART II. PILOT BALLOON OBSERVATIONS

EXPLANATORY NOTE

Pilot balloon observations began on January 28 1940, 4 days after departure of U. S. M. S. *North Star*, when a 100-gram balloon reached a height of 15,700 meters—higher than any pilot balloon ascent ever made previously in Antarctica. Other ascents were made as opportunity afforded until a regular program of daily soundings was inaugurated on February 12.

Thereafter, until January 29, 1941, soundings were made daily unless prevented by drifting snow or rendered inadvisable because of low visibility or, sometimes, lack of time of the observer, or lack of assistance. In a few cases, more than one run was made in a day, either to provide winds aloft reports for pilots or to study peculiar conditions.

Until late March observations were made from an improvised site on the level snow surface, the theodolite being moved twice as house construction and snow drifts required. These three initial locations were approximately 100 feet or 30 meters above sea level.

Early in April a combination inflation house and observatory, 12×24 feet, was completed at one end of the science building and on April 14 the first ascension was made from this new observatory, approximately 33 meters above sea level.

Night-time observations, necessary during the 4-month absence of the sun from April 22 to August 20, were difficult and generally unsatisfactory. Chief difficulties were the reluctance of standard candles to burn, the presence of smoke, and the reflection of light from various clouds of vapor issuing from building ventilators.

To obtain data on the vertical wind structure in polar inversions, readings were made in almost all ascents at half-minute intervals for the first ten minutes, the customary minute intervals being used thereafter. When it appeared that the balloon soon would enter clouds, half-minute readings were continued for more than ten minutes.

In calculating the results, the ascension rates adopted in 1939 by the Weather Bureau were employed, direct interpolations of altitude being used for the half minutes. For the 30-gram balloons, distance tables were available, but none had been as yet published for the 100-gram balloon, so the slide rule was used. Discrepancies between distances obtained by slide rule computation and the recently published tables are less than the margin of error in plotting, and thus do not affect the accuracy of the results.

Use of the standard Weather Bureau pilot ballon altitudes (and distances) probably introduces a constant source of error in the results, since these tables are based upon double theodolite observations made generally on warm days. Obviously, the 10-percent increase in ascension rate during the first five minutes of the run, generally attributed to local turbulence or possibly convection, should not be used for ascents made over a perfectly level snow surface especially in a pronounced inversion with consequent complete lack of convection.

In both the 30-gram and 100-gram ascents, directions and speeds were obtained over 2-minute periods, as was the general Weather Bureau practice prior to May 15, 1940, except that during the first 10 minutes values were obtained for 1-minute intervals, using alternate readings. To obtain this increased detail, the plotting board was modified by the addition of a distance scale twice that of the ordinary one.

In graphing (Form 1115), the altitudes standard before 1940 were used for both the 30-gram and 100-gram balloons, and in the case of the 100-gram balloons, curves were drawn to the maximum altitude observed instead of to a point half a minute before the end of the ascent, as was later the practice.

Of the 233 numbered ascensions, 12 did not attain the minimum elevation of 1,000 feet (306 meters) required by Weather Bureau regulations and therefore should not have been counted. Most such runs were made to determine ceiling heights, since no ceiling balloons were available.

TABLE 8, *Individual Pilot Balloon Ascents:* Tabular presentation of the individual pilot balloon ascents has been patterned after the style used by Grimminger, with some modifications, such as indicating wind direction only in degrees clockwise from north rather than by "azimuth" from south or compass points.

Results of the 221 individual pilot balloon ascents, and of 12 other attempted ascents which did not attain the minimum height required for inclusion in summaries, were extracted directly from the original records.

The three columns give, respectively, the height in meters above the observation point, wind direction there in degrees clockwise from north, and speed in meters per second, for each minute of each observation. Where half-minute readings were made in the initial stages of observations, values for them are incorporated.

For each observation the following data are included in the heading: serial number of ascent; weight of balloon and color (b for black, w for white, r for red); Greenwich Meridian Time (local official time) of release; date; cloud types and direction, determined either visually or from the ascension results; visibility on international scale of 0 to 9; surface air temperature, Centigrade; and surface (station) pressure in millibars.

At the end of each observation are given any comments, and the reason for termination of the run. Where clouds were entered, or burst was observed, at a time other than that of the last reading, the altitude in meters is included, with the elapsed time in minutes and seconds in parentheses. Where no heights or times are given, entry into cloud or burst occurred on or within a few seconds of the final reading.

TABLE 9a, *Free-air Wind Summaries:* Summarizing of the pilot balloon observations was done in standard Weather Bureau fashion by the punch card station at New Orleans, from data entered on Form 1114 by the various persons who computed the original data. The tables give, for each kilometer level, and also for 500, 750, 1,500, and 2,500 m. above sea level, the number of ascents represented, the resultant direction and speed, the average speed, the stability, and the north-south and west-east components of the resultant wind. Methods of computation of resultants, averages, and stability have been adequately discussed and need not be explained here; a short discussion is given by Grimminger, with whose tables these are

strictly comparable, with due regard to slight improvements in notation already listed, and for differences discussed later.

Values recorded for the highest point of an ascent were considered to apply to the next higher standard level when within 100 m. for the first three levels and within 250 m. for the 1,500 m. and all higher levels. Of the 233 ascents, 221 exceeded 1,000 feet above the surface (306 m. mean sea level), but only 218 attained 265 m. above the surface (400 m. mean sea level) and permitted them to be used for the 500-meter level. Thus the summaries represent only 218 ascents, since no ascent which did not reach 400 meters was included. (An apparent discrepancy in September is due to the inclusion of ascent No. 127, for which data below 700 meters are missing.)

TABLES 9b, and 9c, *Summaries of Individual Ascents by Seasons, and by Seasons with Months Weighted:* Seasonal values in these tables were obtained by considering the total number of ascents during the period, regardless of their distribution by months, according to the same method used in the previous means.

TABLES 10a and 10b, *Comparison of Free-air Wind Summaries with Records from Previous Observations:* In comparing the seasonal means with those given by Grimminger for 1929–30 and 1934–35, it must be remembered that the summer and autumn values represent very uneven distribution of observations. The 1929–30 summer values represent:

January 1929	16 ascents.
February 1929	33 ascents.
December 1929	41 ascents.
January 1930	34 ascents.

Thus, of the 124 ascents, 49 are from one year, 75 from the next, and 50 (40 percent) are for January, with only 16 (9 percent) for February. The 1934–35 summer means represent only 71 ascents in December 1934 and 57 in January 1935. And the 1940–41 summer values are for:

February 1940	19 ascents.
December 1940	24 ascents.
January 1941	24 ascents.

Means for the other seasons are similarly ill-distributed, so that care must be used in comparing values for various years.

Figures 4–7 show graphically the results of pilot balloon ascensions, both by months and by seasons.

INDIVIDUAL ASCENTS

TABLE 8.—*Individual pilot balloon ascents, Little America III*

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 1: 100g w.; 2111; 1,30,40; AS U.; V: 9; −12.8C; 995.6 mb.		
Sfc	220	0.9
350	150	4.3
670	146	5.1
980	159	4.4
1,285	172	4.3
1,585	199	4.8
1,880	207	5.8
2,170	198	5.1
2,455	202	4.3
2,740	216	4.1
3,020	216	2.9
3,300	215	2.7
3,580	224	4.2
3,855	232	5.5
4,130	235	6.7
4,405	230	7.2
4,675	230	6.9
4,945	231	7.4
5,215	225	9.2
5,485	225	10.4
5,755	226	12.4
6,025	231	15.2
6,295	241	18.3
6,565	240	19.4
6,835	247	19.2
7,105	252	19.0
7,375	249	20.6
7,645	255	25.1
7,915	256	26.8
8,185	256	27.9
8,455	256	31.3
8,730	258	32.0
9,005	260	30.6
9,285	259	31.6
9,565	259	30.8
9,850	257	32.2
10,135	257	30.4
10,420	258	27.0
10,710	256	24.8
11,005	262	20.4
11,300	262	21.5
11,595	260	25.0
11,890	258	24.8
12,185	255	24.0
12,480	246	22.0
12,775	246	15.5
13,075	268	13.0
13,375	267	15.0
13,675	259	15.5
13,975	249	13.0
14,275	258	9.5
14,570	262	11.0
14,860	253	11.5
15,145	253	8.0
15,425	253	9.0
15,705	255	11.0
End: Abandoned		
No. 2: 101g w.; 1006; 2/3/40; SC NNW.; V: 9; −5.6C; 1004.9 mb.		
Sfc	240	1.2
350	314	2.8
670	356	6.5
980	2	8.9
*1,285	358	9.5
1,585	355	11.0
1,880	345	10.4
2,170	336	10.8
2,455	336	12.1
2,740	335	12.4
3,020	333	12.9
3,300	337	14.4
3,580	332	16.9
3,855	326	18.7
4,130	328	18.7
*Interpolated.		
End: Entered AC (SC)		
No. 3: 98g w.; 0815; 2/5/40; AC U AS U. V:9; −13.3 C; 997.8 mb.		
Sfc	160	1.9
350	200	6.4
670	211	4.6
980	224	9.2
1,285	236	9.2
1,585	246	8.8
1,880	257	7.7
2,170	259	6.9
No. 3—Continued		
2,455	249	6.3
2,740	244	5.8
3,020	244	5.6
3,300	244	5.7
3,580	247	6.0
3,855	252	6.3
4,130	258	6.0
4,405	263	5.9
4,675	266	6.6
4,945	265	7.2
5,215	264	7.3
5,485	258	7.3
5,755	257	7.8
6,025	251	8.6
6,295	256	11.1
6,565	265	11.6
6,835	260	10.5
7,105	258	11.8
7,375	258	11.3
7,645	262	9.4
7,915	260	8.8
8,185	252	9.2
8,455	248	10.4
8,730	248	9.5
9,005	248	8.8
9,285	248	10.3
9,565	252	10.3
9,850	253	9.5
10,135	247	10.4
10,420	245	10.0
10,710	250	9.6
11,005	248	10.0
11,300	246	10.4
11,595	243	10.4
11,890	239	9.6
12,185	250	8.0
12,480	257	8.0
12,775	250	10.0
13,075	242	9.0
13,375	244	8.8
13,675	247	11.8
13,975	241	10.0
14,275	241	7.8
14,570	240	8.8
14,860	243	9.4
15,145	235	9.0
15,425	221	7.8
15,705	225	7.2
End: Burst		
No. 4: 100g w.; 0113; 2/9/40; 00; V: 9; −10.4 C; 995.3 mb.		
Sfc	224	4.5
350	207	12.4
670	205	11.9
980	201	9.0
1,285	198	5.9
1,585	202	4.6
1,880	198	3.9
2,170	196	3.6
2,455	181	4.7
2,740	161	5.2
3,020	154	4.8
3,300	145	4.6
3,580	134	4.4
3,855	125	4.7
4,130	121	4.8
4,405	117	5.3
4,675	119	6.6
4,945	128	7.4
5,215	135	8.0
5,485	136	8.8
5,755	134	8.4
6,025	130	8.0
6,295	127	8.4
6,565	125	8.5
6,835	121	9.0
7,105	119	10.4
7,375	115	11.6
7,645	109	13.5
7,915	105	15.5
8,185	106	16.8
8,455	106	18.4
8,730	101	18.4
9,005	97	17.7
End: Abandoned		
No. 5: 28g r.; 1928; 2/10/40; 00; V: 9; −18.8 C; 994.4 mb.		
Sfc	228	6.3
216	198	11.8
414	184	10.3
612	195	16.5
801	196	18.8
990	194	17.0
1,170	198	14.3
1,350	206	13.7
1,530	207	13.9
End: Lost		
No. 6: 105g w.; 2115; 2/12/40; AC U.; V: 9; −16.7C; 998.2 mb		
Sfc	191	5.8
350	154	5.6
670	147	3.7
980	95	1.5
1,285	32	2.7
1,585	28	4.2
1,880	41	4.0
2,170	43	4.8
2,455	44	4.1
2,740	44	4.6
3,020	38	5.0
3,300	42	4.6
3,580	68	3.9
3,855	103	4.6
4,130	114	5.7
4,405	112	5.6
4,675	119	5.8
4,945	125	6.7
5,215	130	7.6
5,485	141	9.2
5,755	154	11.5
6,025	160	14.7
6,295	162	17.8
6,565	162	17.9
6,835	162	18.4
7,105	165	20.7
7,375	165	21.5
7,645	160	25.0
7,915	157	19.7
8,185	156	12.7
8,455	155	12.8
8,730	155	11.0
9,005	152	10.6
9,285	144	10.8
9,565	148	8.0
9,850	154	6.2
10,135	157	6.0
10,420	157	4.2
10,710	169	3.6
11,005	169	4.6
11,300	172	4.0
11,595	180	1.0
11,890	180	1.0
12,185	180	1.0
12,480	180	1.0
12,775	180	1.0
13,075	180	1.0
13,375	180	1.0
13,675	180	1.0
13,975	180	1.0
14,275	180	1.0
14,570	180	1.0
14,860	180	1.0
15,145	180	1.0
15,425	180	1.0
15,705	180	1.0
15,985	180	1.0
End: Burst		
No. 7: 102g w.; 2242; 2/13/40; NS U; V: 9; −12.3C; 997.0 mb.		
Sfc	90	1.2
350	104	3.2
670	112	1.3
980	2	2.2
1,285	358	4.3
1,585	358	5.5
1,880	349	5.9
2,170	344	6.3
2,455	338	7.6
2,740	339	7.7
3,020	344	7.6
3,300	350	7.6
3,580	353	7.7
No. 7—Continued		
3,855	349	7.7
4,130	348	7.8
4,405	344	7.2
4,675	341	5.8
4,945	336	4.0
5,215	312	2.7
5,485	292	2.7
5,755	301	2.7
6,025	317	3.5
6,295	309	4.5
6,565	291	4.8
6,835	289	5.4
7,105	265	5.7
7,375	231	5.2
7,645	227	6.7
7,915	228	9.2
8,185	221	9.4
8,455	218	10.4
8,730	223	9.8
9,005	233	7.9
9,285	248	5.0
9,565	257	5.5
9,850	257	6.3
10,135	257	4.0
10,420	286	3.4
10,710	278	4.8
11,005	273	5.1
11,300	277	4.6
11,595	276	3.9
11,890	267	4.1
12,185	271	4.8
12,480	273	5.1
12,775	252	4.3
13,075	245	3.8
13,375	251	4.5
13,675	255	5.0
13,975	257	5.8
14,275	263	8.0
14,570	274	12.3
14,860	279	15.1
End: Burst. Wind increased from E 3 to E 6 during observation		
No. 8: 32g r.; 2007; 2/14/40; CC U; AS–AC W; SC W.; V: 8; −11.7C; 1003.2 mb.		
Sfc	40	2.2
108	25	3.9
216	16	3.8
315	10	3.5
414	5	3.3
513	352	2.9
612	328	2.6
706	308	2.7
801	305	2.9
895	313	3.6
990	316	3.8
1,170	302	3.2
1,350	277	3.5
1,530	270	4.3
1,710	269	4.9
1,890	282	6.0
2,070	290	6.6
End: Entered AC		
No. 9 : 30g r.; 2002; 2/15/40; AC N; SC NE.; V:8; −7.2C; 1001.6 mb		
Sfc	93	2.7
216	41	6.5
414	19	6.2
513	18	5.9
612	16	5.7
706	16	5.2
801	28	4.5
895	24	4.3
990	19	4.2
1,080	24	3.5
1,170	27	3.3
1,260	18	3.6
1,350	11	3.9
1,440	19	4.2
1,530	19	4.6
1,620	18	4.6
1,710	19	3.9
1,800	15	3.2
1,890	352	3.8
1,980	334	3.2
End: Entered AC 1,890m. (10:00)		
No. 10: 33g r.; 2040; 2/16/40; AS NNE.; V:6; −14.0C; 989.9 mb.		
Sfc	196	1.3
108	224	3.1
216	242	3.8
315	232	3.4
414	195	1.7
513	172	1.8
612	115	2.7
706	111	3.1
801	124	4.2
895	131	5.8
990	126	5.3
1,080	106	3.7
1,170	92	3.4
1,260	81	3.4
1,350	71	3.8
1,440	63	4.0
1,530	59	3.9
1,620	66	3.7
1,710	82	3.0
1,800	104	2.6
1,890	106	2.3
1,980	95	2.1
2,070	87	1.4
2,160	60	1.1
2,250	38	0.9
2,340	21	0.8
End: Entered AS 2,250m. (12:00) Occasional very light snow and graupel		
No. 11: 32g r.; 2033; 2/17/40; CS W; NS W.; V:9; −16.7C; 984.1 mb.		
Sfc	196	7.2
216	182	17.5
414	181	18.6
612	182	15.4
801	181	13.2
990	176	10.6
1,170	168	7.4
1,350	166	6.6
1,530	170	7.1
1,710	173	7.2
End: Lost due to poor contrast of color with sky, which cleared as observation progressed. Surface drift at times 1 meter high		
No. 12: 102g w.; 0110; 2/18/40; CS E; NS E.; V:9; −13.9C; 983.2 mb.		
Sfc	238	5.8
175	220	10.0
350	215	11.4
510	219	12.7
670	221	12.3
825	219	14.2
980	217	16.0
1,130	214	13.7
1,285	214	13.2
1,415	217	12.5
1,585	215	10.6
1,735	218	9.1
1,880	225	8.3
2,025	227	9.2
2,170	227	9.8
2,310	225	10.4
2,455	225	10.2
2,600	225	9.6
2,740	221	10.4
2,880	218	9.6
3,020	218	8.7
3,300	194	4.7
3,580	166	3.1
3,855	183	3.7
4,130	178	4.4
4,405	158	4.4
4,675	125	4.3
4,945	103	4.7
5,215	91	6.7
5,485	85	8.8
5,755	80	9.7
6,025	70	10.2
6,295	62	11.8
6,565	66	14.4
6,835	61	17.7
7,105	56	18.7
7,375	61	15.4

TABLE 8.—*Individual pilot balloon ascents, Little America III*—Continued

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 12—Continued		
7,645	61	13.8
7,915	59	12.3
8,185	55	9.7
8,455	56	7.9
8,730	56	6.6
9,005	50	6.3
9,285	50	6.1
9,565	60	5.1
9,850	61	5.1
10,135	53	4.4
10,420	43	2.3
10,710	46	1.4
11,005	81	2.9
11,300	64	4.2
11,595	40	4.2
11,890	38	3.7
12,185	29	3.4
12,480	354	3.4
12,775	335	3.7
13,075	6	1.9
13,375	40	2.2
13,675	45	1.9
13,975	2	2.3
14,275	357	1.8
14,570	20	1.4
14,860	350	2.4
*15,145	304	2.8
*15,425	259	3.1
*15,705	234	1.8
*15,985	216	1.3

*Doubtful
End: Burst (56:37)

No. 13: 103g w; 2326; 2/18/40; CC NW; NS SW; V:9; −13.9C; 993.5 mb.

Sfc	203	2.2
175	220	7.1
350	222	5.4
510	222	9.7
670	223	9.7
835	225	9.9
980	220	7.5
1,130	215	5.1
1,285	233	4.3
1,415	239	3.8
1,585	239	3.2
1,735	244	2.9
1,880	249	2.3
2,025	247	4.7
2,170	260	5.4
2,310	260	5.4
2,455	260	5.8
2,600	265	5.2
2,740	265	5.3
2,880	259	5.2
3,020	267	4.3
3,300	275	3.4
3,580	268	3.6
3,855	268	3.6
4,130	269	3.7
4,405	272	3.9
4,675	258	4.4
4,945	263	5.8
5,215	251	5.6
5,485	255	5.0
5,755	262	5.4
6,025	272	4.8
6,295	277	3.2
6,565	285	2.4
6,835	302	1.9
7,105	360	1.8
7,375	37	2.9
7,645	37	4.1
7,915	17	3.7
8,185	2	3.6
8,455	2	4.0
8,730	358	3.4
9,005	4	2.7
9,285	21	2.2
9,565	27	2.3
9,850	35	2.3
10,135	55	2.4
10,420	25	2.7
10,710	7	4.2
11,005	3	4.3
11,300	334	3.9
11,595	318	3.7
11,890	324	1.6
12,185	80	0.6
12,480	88	1.6

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 13—Continued		
12,775	59	3.8
13,075	44	4.8
13,375	26	5.4
13,675	10	7.2
13,975	354	6.4
14,275	352	4.7
14,570	1	4.3
14,860	10	3.1
15,145	338	2.1
15,425	297	1.3
15,705	309	1.4
15,985	356	1.8
16,265	30	2.6
16,545	23	1.9

End: Burst 1,6640m. (58:20)

No. 14: 32g r.; 2100; 2/19/40; NS ENE.; V:8; −10.0C; 1004.5mb.

Sfc	195	4.0
108	189	7.0
216	195	7.3
315	197	6.8
414	192	6.2
513	182	5.4
612	174	4.8
706	167	4.3
801	157	4.3
895	147	5.1
990	143	5.0
1,080	135	3.9
1,170	128	3.2
1,260	118	2.2
1,350	121	1.9
1,440	123	1.8
1,530	106	1.4
1,620	100	1.4

End: Entered NS 1,685m. (8:45).

No. 15: 33g b.; 2111; 2/20/40; SC NNE.; V:8; −8.8C; 998.8mb.

Sfc	80	4.0
108	55	7.6
216	31	6.7
315	17	5.4
414	12	4.8
513	14	4.2
612	18	3.8

End: Entered SC 695m. (3:25)

No. 16: 32g r.; 2104; 2/21/40; AS N.; V:4; −13.3C; 995.6 mb

Sfc	107	10.3
*108	95	15.4
*216	81	13.4
315	68	10.2
414	61	9.9
513	55	9 3
612	51	8.9
706	49	8.3
801	42	7.4
895	35	7.1
990	28	6.5
1,080	14	5.1
1,170	6	4.4
1,260	2	4.4

*Interpolated

End: Faded; slight drift

No. 17: 33g b.; 2145; 2/22/40; SC N.; V:8; −5.2C; 1004.7 mb

Sfc	339	5.4
108	348	6.0
216	344	6.7
315	344	6.6
414	342	7.4
513	343	8.7
612	345	8.3
706	358	7.4
801	5	7.6
895	4	7.2

End: Entered SC 738m. (3:40). Wind changed from E 6 to NNW 5 15 min. before run

No. 18: 28 g b.; 2056; 2/23/40; ST NE.; V:7; −3.9C; 1001.7 mb

Sfc	78	2.2
216	55	8.0

End: Entered scud 272m. (1:20)

No. 19: 104g w.; 2048; 2/24/40; AC SW; ST SW; V:9; −11.7C; 1003.7 mb.

Sfc	203	7.2
175	217	10.2
350	230	8.8
510	232	7.4
670	227	8.2
825	229	9.2
980	224	10.4
1,130	227	12.2
1,285	228	15.3
1,415	233	15.4
1,585	235	14.8
1,735	235	15.1
1,880	243	8.4
2,025	290	5.8
2,170	307	8.4
2,310	306	9.6
2,455	300	10.6
2,600	295	10.2
2,740	292	10.4
2,880	286	12.8
3,020	283	13.1
3,300	290	13.2
3,580	288	15.0
3,855	278	16.4
4,130	273	17.2
4,405	272	17.4
4,675	271	19.1
4,945	271	23.2
5,215	271	22.9
5,485	269	23.0
5,755	267	23.9
6,025	265	26.8
6,295	262	26.8
6,565	262	30.1
6,835	259	32.4
7,105	257	31.0
7,375	258	33.8
7,645	256	41.8
7,915	253	44.9
8,185	246	46.8

End: Faded. Observation made during only period of day not overcast. Clouds moved in rapidly from SW during observation

No. 20: 29g r.; 0421; 2/27/40; CS U; AS SE; ST SW; V:8; −12.2C; 991.0 mb.

Sfc	230	2.7
108	214	4.4
216	205	8.2
315	207	3.0
414	215	3.2
513	227	3.4
612	223	3.2
706	210	3.8
801	200	4.0
895	189	3.5
990	196	3.1
1,080	207	3.2
1,170	202	3.6
1,260	194	2.8
1,350	186	2.4
1,440	175	2.2
1,530	167	1.8

End: Entered AS

No. 21: 102g r.; 2235; 2/29/40; CS NW; AS NW; V:8; −16.5C; 999.0 mb.

Sfc	191	3.1
175	149	6.3
350	146	7.4
510	156	6.6
670	166	5.6
825	181	5.2
980	256	6.2
1,130	272	7.0
1,285	283	7.4
1,415	285	8.3

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 21—Continued		
1,585	291	8.4
1,735	288	8.4
1,880	289	12.3
2,025	296	16.4
2,170	299	19.2
2,310	296	21.3
2,455	296	20.0
2,600	296	21.4
2,740	296	23.4
2,880	293	24.8
3,020	294	24.7
3,300	292	23.8
3,580	290	27.0
3,855	287	31.1
4,130	284	27.7
4,405	284	25.8
4,675	288	27.9
4,945	294	29.0
5,215	296	28.6
5,485	292	30.4
5,755	290	31.4
6,025	288	31.6
6,295	279	31.4
6,565	274	32.0

End: Lost behind AS

No. 22: 104g w.; 0858; 3/1/40; CS NW; AS NW; V:8; −20.4C; 999.0 mb.

Sfc	170	4.5
175	130	10.4
350	127	8.5
510	135	6.2
670	142	5.8
825	143	4.7
980	143	3.9
1,130	146	3.8
1,285	147	3.8

End: Darkness and rapid motion. Run made at dusk at request of plane in air to south

No. 23: 32g b.; 0406; 3/3/40; ST SE; V:5; −17.9C; 997.6 mb.

Sfc	140	9.8
216	130	6.3
365	130	10.3

End: Entered ST 365m. (1:45)

No. 24: 34g r.; 0417; 3/5/40; SC NW; ST W; V:8; −13.4C; 1002. 7mb.

Sfc	165	3.6
108	133	1.6
*216	135	1.7
315	140	1.8
414	124	3.0
513	139	4.8
612	143	3.3

*Interpolated.

End: Lost overhead

No. 25: 31g r.; 0432; 3/6/40; CS NW; AC NW; ST ENE; V:7; −12.2C; 1008. 5mb.

Sfc	100	7.6
108	97	12.1
216	83	7.7
315	44	3.2
414	42	3.0
513	51	3.2
612	75	3.3
706	98	3.1
801	89	2.7
895	69	2.2

End: Entered ST 817m. (4:05)

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 26: 95g w.; 0633; 3,7/40; CI NW; AS NW; V: 9; −24.2C; 1007.0 mb.		
Sfc	214	5.4
175	208	9.5
350	214	8.8
510	232	7.4
670	258	7.4
825	274	6.8
980	279	6.6
1,130	271	6.8
1,285	274	7.4
1,415	276	8.8
1,585	269	8.6
1,735	265	7.8
1,880	264	6.8
2,025	263	6.1
2,170	263	6.0
2,310	261	6.3
2,455	260	7.0
2,600	257	7.4
2,740	253	8.0
2,880	251	8.8
3,020	251	9.0
3,300	252	8.7
3,580	250	8.4
3,855	252	7.9
4,130	266	7.3
4,405	274	7.2
4,675	281	7.6
4,945	283	8.4
5,215	286	9.0
5,485	290	9.6
5,755	296	9.8
6,025	308	10.3
6,295	314	11.7
6,565	313	13.0
6,835	321	12.9
7,105	327	13.0
7,375	328	14.2
7,645	330	14.9
7,915	331	14.9
8,185	327	14.7
8,455	315	14.1
8,730	302	12.6
9,005	293	11.8
9,285	291	11.2
9,565	286	10.9
9,850	284	11.3
10,135	283	10.9
10,420	278	10.4
10,710	277	12.0
11,005	276	12.2
11,300	275	12.2
11,595	272	13.0
11,890	269	11.8
12,185	267	11.2
12,480	270	13.4
12,775	271	12.0
13,075	269	10.4
13,375	269	12.1
13,675	269	12.4

End: Burst (possibly at 13,375 m)

No. 27: 30g r.; 0412; 3/8/40; SC SW; V: 7; −25.4C; 1006.3 mb.

Sfc	211	3.1
108	209	6.4
216	221	8.2
315	228	8.0
414	224	6.9
513	218	5.9
612	225	5.7
706	232	5.8
801	226	5.0
895	221	4.9
990	221	5.9
1,080	211	8.7
1,170	214	12.7
1,260	222	14.8
1,350	225	15.8
1,440	233	18.8
1,530	240	21.1
1,620	242	20.6
1,710	244	22.0
1,800	246	21.8
1,890	247	22.0
1,980	248	21.4
2,070	249	19.2

End: Entered SC 2085 m. (11:05)

TABLE 8.—*Individual pilot balloon ascents, Little America III*—Continued

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 28: 28g r.; 0416; 3/9/40; SC NW; ST W; V: 5; −14.5C; 992.9 mb.		
Sfc	300	7.6
108	296	8.6
216	282	8.5
315	276	7.9
414	276	7.0
End: Entered ST		
No. 29: 104g w.; 0137; 3/10/40; AS W; V: 9; −24.2C; 997.6 mb.		
Sfc	233	0.8
175	248	2.3
350	267	6.2
510	275	3.6
670	273	4.4
*825	283	4.9
980	298	5.7
1,130	311	6.6
1,285	305	9.3
1,415	297	13.2
1,585	291	14.9
1,735	290	15.2
1,880	287	16.1
2,025	291	16.2
2,170	295	17.7
2,310	292	19.2
2,455	295	19.6
2,600	297	19.6
2,740	299	19.6
2,880	299	19.4
3,020	299	19.6
3,300	297	20.5
3,580	298	21.6
3,855	298	21.8
4,130	301	22.0
4,405	302	23.3
4,675	301	20.6
4,945	304	18.7
5,215	309	20.3
5,485	309	17.6
5,755	308	15.6
6,025	308	15.6
6,295	309	15.6
6,565	311	16.0
6,835	314	16.0
7,105	308	14.2
7,375	308	14.0
7,645	311	15.8
7,915	312	14.2
8,185	321	13.0
8,455	327	12.6
8,730	326	11.8
9,005	318	11.0
9,285	314	9.4
9,565	316	10.2
9,850	314	10.8
10,135	311	10.4
10,420	312	9.6
*Interpolated.		
End: Faded		
No. 30: 32g r.; 0417; 3/13/40; AC N; AS N; ST N; V: 6-2; −3.8C; 972.6 mb		
Sfc	42	7.2
216	28	9.1
315	15	14.2
414	8	12.6
513	5	9.4
612	14	6.6
706	28	5.6
End: Blowing and falling snow (began during launching, increased during observation, obscuring balloon)		
No. 31: 28g r.; 0410; 3/15/40; ST NNE; V: 6; −3.1C; 990.5 mbs.		
Sfc	44	7.6
216	30	13.5
End: Entered ST.		
No. 32: 32g r.; 0454; 3/17/40; ST NW; V: 4; −2.7C; 97 .9 mbs.		
Sfc	348	4.5
216	345	7.6
End: Entered ST		
No. 33: 102g w.; 0401; 3/21/40; AC W; V: 9; −28.6C; 981.9 mb.		
Sfc	209	5.8
350	206	5.5
510	224	6.8
670	229	5.4
825	230	3.4
*980	264	2.8
1,130	278	4.8
1,285	268	5.8
1,415	255	7.4
1,585	255	8.4
1,735	265	7.8
1,880	275	8.4
2,025	277	9.2
2,170	282	8.4
2,310	278	9.4
2,455	275	11.6
2,600	280	11.2
2,740	284	11.4
2,880	288	10.4
3,020	288	10.6
3,300	291	11.2
3,580	288	10.9
3,855	286	11.1
4,130	283	12.4
4,405	278	12.0
4,675	277	12.2
4,945	276	13.4
5,215	274	13.7
5,485	274	13.1
5,755	275	13.1
6,025	275	14.2
6,295	279	14.3
6,565	281	14.1
6,835	278	15.5
7,105	280	15.6
7,375	283	13.6
7,645	280	15.4
7,915	281	15.7
8,185	285	13.1
8,455	286	12.4
*Passed through thin AC.		
End: Abandoned due to frost-bite on both cheeks		
No. 34: 31g r.; 0402; 3/22/40; AC W; SC W; V: 9; −23.5C; 987.5 mb.		
Sfc	255	3.1
216	278	5.3
315	284	5.7
414	277	9.2
513	272	9.2
612	275	9.4
706	274	9.2
801	268	11.0
895	263	10.4
990	264	11.6
1,080	261	11.0
1,170	257	9.8
1,260	257	10.0
1,350	258	9.2
*1,440	256	8.6
1,530	251	8.8
*Balloon in sunlight 07:15 until just before entering SC.		
End: Entered SC 1,545 m. (8:05)		
No. 35: 31g r.; 0312; 3/24/40; AC NW; V: 7; −16.4C; 989.1 mb.		
Sfc	89	6.7
108	92	11.8
216	88	13.4
315	82	12.4
414	72	9.4
513	54	5.4
612	38	1.6
706	76	1.4
801	106	1.0
No. 35—Continued		
895	107	0.8
990	109	1.0
1,080	118	2.8
1,170	103	2.1
1,260	116	3.2
1,350	317	4.4
1,440	318	4.8
1,530	314	5.4
1,620	308	6.2
1,710	313	6.2
1,800	323	6.2
1,890	330	6.0
1,980	327	6.2
2,070	328	6.2
2,250	334	5.7
2,430	339	5.1
2,610	339	4.8
End: Entered SC		
No. 36: 100g w.; 0316; 3/27/40; AC NW; V: 9; −29.4C; 989.9 mb.		
Sfc	223	6.7
175	218	8.9
350	220	8.6
510	251	7.6
670	276	8.8
*825	285	8.5
980	312	8.1
1,130	319	9.0
1,285	321	9.4
1,415	318	10.2
1,585	317	11.4
1,735	318	12.2
1,880	316	12.4
2,025	315	12.6
2,170	317	13.0
2,310	319	13.4
2,455	318	14.2
2,600	315	14.8
2,740	315	15.6
2,880	315	16.4
*Interpolated. End: Lens frosting & frost-bite		
No. 37: 105g r.; 0209; 3/30/40; AC W; V: 8; −22.4C; 998.2 mb.		
Sfc	303	2.2
175	98	5.8
350	119	7.0
510	146	8.4
670	180	7.4
825	216	8.8
980	224	10.6
1,130	225	10.4
1,285	228	10.8
1,415	244	8.4
1,585	265	6.0
End: Entered AC		
No. 38: 105g w.; 0210; 4/3/40; 00.; V: 9; −17.5C; 999.1 mb.		
Sfc	111	6.3
350	44	11.1
670	19	10.7
825	12	11.2
980	14	10.4
1,130	16	10.4
1,285	19	9.8
1,415	17	9.3
1,585	18	9.3
1,735	23	9.4
1,880	22	10.6
2,025	21	11.2
2,170	24	11.0
2,310	24	10.4
2,455	20	9.4
2,600	20	9.6
2,740	21	10.6
2,880	23	11.0
3,020	26	11.6
3,300	30	12.7
3,580	27	14.0
3,855	25	14.2
4,130	24	14.1
4,405	24	14.4
4,675	25	15.8
4,945	26	16.1
5,215	26	15.9
No. 38—Continued		
5,485	26	16.1
5,755	26	17.0
6,025	25	17.0
6,295	31	16.5
6,565	30	15.8
6,835	22	17.7
7,105	19	19.2
7,375	20	18.9
7,645	23	22.4
7,915	24	22.8
8,185	24	19.9
8,455	20	24.0
8,730	19	26.0
9,005	17	22.5
9,285	17	27.8
9,565	17	28.8
9,850	17	27.2
10,135	18	34.4
10,420	18	32.0
10,710	17	27.5
11,005	21	23.5
11,300	18	14.5
11,595	10	11.1
11,890	20	10.0
12,185	18	7.5
12,480	356	5.5
12,775	355	9.0
13,075	359	12.0
13,375	351	10.0
13,675	345	5.0
13,975	344	3.5
14,275	340	10.0
14,570	338	12.0
14,860	347	9.5
End: Burst		
No. 39: 104g w.; 0149; 4/4/40; CI U; AC NW; V: 9; −21.3C; 993.4 mb.		
Sfc	86	5.4
175	29	4.2
350	352	3.0
510	346	2.8
670	13	3.2
825	360	2.6
980	353	2.6
1,130	7	3.0
1,285	348	4.4
1,415	345	5.4
1,585	351	6.2
1,735	355	6.2
1,880	352	6.3
2,025	352	6.8
2,170	352	7.6
2,310	351	8.4
2,455	353	8.4
2,600	355	9.8
2,740	356	10.8
2,880	5	10.2
3,020	7	10.8
3,300	9	12.4
3,580	14	11.6
3,855	18	11.8
4,130	16	14.4
4,405	16	15.2
4,675	16	14.2
4,945	11	15.9
5,215	8	18.6
5,485	11	17.7
5,755	14	16.8
6,025	13	17.0
6,295	10	18.8
6,565	9	19.4
6,835	8	18.5
7,105	8	19.6
7,375	5	19.4
7,645	5	18.6
7,915	5	17.8
8,185	2	16.4
8,455	359	17.5
8,730	354	17.8
End: Faded—possibly entered or obscured by CS		
No. 40: 104g w.; 0149; 4/14/40; 00.; V: 9; −45.6C; 977.6 mb.		
Sfc	10	0.9
175	222	1.8
350	224	4.2
510	229	5.6
670	225	4.8
825	225	4.8
980	225	3.4
1,130	224	3.6
1,285	217	4.6
1,415	215	7.2
1,585	215	4.4
1,735	222	3.4
1,880	211	3.4
2,025	207	2.4
2,170	223	1.6
2,310	222	3.8
2,455	215	5.2
2,600	205	4.6
2,740	205	3.4
2,880	212	2.4
3,020	212	2.6
3,300	212	2.2
3,580	199	0.8
3,855	195	1.2
4,130	177	1.3
4,405	158	1.2
4,675	120	0.9
4,945	118	1.4
5,215	118	0.8
5,485	171	0.7
5,755	204	1.2
6,025	199	2.2
6,295	209	2.7
6,565	219	3.3
6,835	216	4.4
7,105	212	4.4
7,375	214	4.7
7,645	220	5.3
7,915	218	5.1
8,185	218	6.4
8,455	219	6.9
8,730	221	7.2
9,005	226	7.4
9,285	230	6.0
9,565	245	6.4
9,850	257	7.2
10,135	267	7.3
10,420	258	7.7
10,710	249	8.1
11,005	242	7.9
11,300	226	7.6
11,595	223	7.6
11,890	224	3.7
12,185	223	4.6
12,480	224	4.2
12,775	233	3.4
13,075	257	5.5
13,375	260	7.4
13,675	251	8.0
13,975	248	7.6
14,275	256	7.2
14,570	258	8.0
End: Burst 14,665 m. (51: 20). First ascent from new observatory		
No. 41: 34g r.; 0218; 4/15/40; ST NE; V: 6; −28.7C; 988.6 mb.		
Sfc	96	4.0
108	60	3.2
216	33	2.8
315	21	2.6
End: Entered ST 332 m. (1: 35)		
No. 42: 32g r.; 0142; 4/17/40; AC SW; ST SW; V: 7; −25.6C; 974.0 mb.		
Sfc	219	3.6
108	229	5.9
216	223	1.7
315	237	1.5
414	237	1.2
End: Entered ST 496m. (2:25)		

TABLE 8.—*Individual pilot balloon ascents, Little America III*—Continued

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 43: 32g r.; 0258; 4/18/40; SC NE; V: 5; −7.8C; 974.2 mb.		
Sfc	40	10.7
108	76	13.2
End: Too dark for run		
No. 44: 105g r.; 2253; 4/18/40; CS NW; AS NW; ST NW; V: 7; −10.8C; 973.1 mb.		
Sfc	91	8.0
175	74	15.4
350	76	14.8
510	64	15.2
670	61	17.2
825	58	17.2
End: Darkness		
No. 45: 33g r.; 2325; 4/19/40: CS U; AC U; ST ENE; V: 7; −19.3C; 973.0 mb.		
Sfc	110	4.5
108	96	5.7
216	80	1.6
315	8	1.5
414	19	1.0
513	17	1.8
612	21	1.7
706	29	1.9
801	34	2.3
895	43	2.3
990	49	2.4
1,080	59	2.4
1,170	80	3.6
1,260	75	5.4
1,350	73	6.1
1,440	72	5.9
1,530	68	6.4
1,620	66	7.5
1,710	66	6.0
End: Entered AC 1,845 m. (9:45)		
No. 46: 32g r.; 2255; 4/20/40; AC S; V: 8; −23.2C; 980.4 mb.		
Sfc	236	1.8
108	217	12.5
216	223	13.3
315	225	11.9
414	232	8.2
513	257	7.3
612	266	6.1
706	258	5.5
801	249	4.7
895	253	4.5
990	257	3.8
1,080	256	3.2
1,170	252	2.7
1,260	238	2.6
1,350	Calm	
1,440	Calm	
1,530	Calm	
1,620	125	2.5
1,710	107	1.1
1,800	82	1.8
1,890	74	1.8
2,070	116	1.3
2,250	173	4.3
2,430	177	6.5
2,610	176	6.8
End: Entered AC 2,565 m. (13:45)		
No. 47: 32g b.; Lantern: 24g.; 0516; 4/23/40; AS NNE; V:5; −23.1C; 985.1 mb.		
Sfc	100	1.3
108	34	6.2
216	93	8.6
315	22	9.5
414	22	10.1
513	21	9.6
End: Entered AS 580 m. (2:50). Few stars dimly visible overhead. Moon shining through clouds		
No. 48: 33g b.; Lantern: 23g.; 0504; 4/24/40; AS NE; V: 2; −22.9C; 985.4 mb.		
Sfc	113	11.2
108	110	19.6
216	109	12.7
*315	108	11.6
414	106	10.7
513	111	14.9
612	109	12.4
*Interpolated.		
End: Obscured by drifting snow		
No. 49: 104g w.; 2301; 4/24/40; AS NE; V:8; −28.1C; 979.0 mb.		
Sfc	113	3.6
175	132	5.0
End: Darkness. Readings obtained only at one-half and three minutes on large balloon without lantern at "noon" two days after last sunset		
No. 50: 32g r.; Lantern: 25g;. 0542; 4/26/40; AS N; V: 5; −22.5C; 966.0 mb.		
Sfc	220	3.6
108	208	7.4
216	195	9.4
315	203	9.2
414	241	3.4
513	180	3.4
612	184	4.1
801	189	4.4
990	184	3.6
1,170	176	2.3
1,350	176	3.0
End: Lost overhead		
No. 51: 31g b.; Lantern: 23g.; 0346; 4/27/40; CS NE; AC ENE; V: 8; −15.3C; 980.4 mb.		
Sfc	158	2.7
108	118	9.2
216	107	8.6
315	91	6.6
414	81	7.2
513	74	7.0
*612	70	6.4
*706	65	6.4
801	60	6.8
895	65	7.4
990	72	6.4
1,080	70	7.0
1,170	64	7.8
1,260	58	7.2
1,350	58	7.6
*Interpolated.		
End: Entered AC 1,395 m. (7:15)		
No. 52: 32g b.; Lantern: 25g.; 0240; 4/28/40; AC U; SC W; V: 6; −22.5C; 983.4 mb.		
Sfc	215	2.2
108	209	6.1
216	210	8.8
315	218	9.1
414	220	8.7
513	216	9.2
612	246	9.7
706	269	12.0
End: Entered SC 755 m. (3:45)		
No. 53: 28g b.; Lantern: 25g.; 0309; 4/30/40; AS ENE; V: 8; −29.9C; 972.2 mb.		
Sfc	191	0.9
108	128	1.5
216	118	1.6
315	157	2.1
414	155	6.2
513	153	8.1
612	144	7.6
706	142	8.1
801	154	7.1
895	149	5.3
990	139	8.0
1,170	179	8.7
End: Light sky		
No. 54: 30g b.; Lantern: 25g.; 0538; 5/1/40; 00; V: 7; −36.9C; 964.4 mb.		
Sfc	130	0.9
108	136	6.5
216	178	6.4
315	184	6.6
414	164	8.6
513	168	10.8
612	170	9.4
706	172	6.8
801	174	4.8
895	173	6.6
990	170	9.0
1,080	171	9.2
1,170	174	8.2
1,260	177	7.4
1,350	176	7.4
1,440	175	6.4
1,530	174	7.0
1,620	176	6.6
1,710	185	5.9
1,800	178	5.6
1,890	178	5.6
2,070	179	6.0
2,250	167	5.5
2,430	147	4.5
2,610	143	3.6
2,790	147	3.2
2,970	131	3.2
3,150	126	2.8
3,330	121	2.9
3,510	103	3.2
3,690	88	2.7
3,870	80	2.6
End: Distance		
No. 55: 30g b.; Lantern: 25g.; 0526; 5/2/40; ASS; V: 7; −42.7C; 966.5 mb.		
Sfc	210	0.9
108	214	0.8
216	Calm	
315	241	4.7
414	260	3.7
513	266	2.5
612	245	2.8
706	233	3.3
801	230	3.7
895	234	4.7
990	236	4.8
1,080	238	4.9
1,170	240	4.9
1,260	239	5.4
1,350	235	6.1
1,440	228	6.2
1,530	220	5.8
1,620	217	6.3
1,710	215	6.8
1,800	206	6.4
1,890	199	6.3
2,070	189	7.2
2,250	186	7.1
End: Entered AS 2,310 m. (12:20)		
No. 56: 27g b.; Lantern: 25g.; 0525; 5/4/40; CS W; CI W; V: 8; −44.9C; 983.7 mb.		
Sfc	158	0.9
108	152	2.3
216	200	1.2
315	222	3.3
414	203	4.0
513	187	4.3
612	209	3.2
706	306	2.6
801	289	2.4
895	284	3.0
990	284	3.1
1,080	278	2.8
1,170	276	3.0
1,260	275	3.4
1,350	266	4.6
1,440	258	5.4
1,530	260	5.6
1,620	268	5.7
1,710	270	5.6
1,800	269	5.3
1,890	272	5.3
2,070	275	5.3
2,250	275	5.3
2,430	268	5.8
2,610	265	7.0
2,790	264	8.1
2,970	264	9.4
3,150	265	10.1
End: Obscured by smoke (17:50)		
No. 57: 32g b.; Lantern: 25g.; 0510; 5/5/40; AS U; V: 7; −36.1C; 977.3 mb.		
Sfc	195	4.9
108	132	7.8
216	121	11.5
End: Candle out		
No. 58: 27g b.; Lantern: 25g;. 0525; 5/5/40; AS U; V: 9; −36.1C; 977.3 mb.		
Sfc	197	4.9
108	136	7.3
216	123	10.5
End: Candle out		
No. 59: 32g b.; Lantern: 25g.; 0516; 5/6/40; AS WSW; V: 8; −46.7C; 978.0 mb.		
Sfc	157	2.2
108	120	2.6
216	177	1.5
315	199	2.8
End: Candle out		
No. 60: 30g b.; Lantern: 25g.; 0528; 5/6/40; AS WSW; V: 8; −46.7C; 978.0 mb.		
Sfc	159	1.3
108	116	3.1
216	155	1.7
315	196	2.3
414	212	2.7
513	222	3.0
612	227	3.1
706	224	3.6
801	218	3.4
895	216	4.3
990	216	4.7
1,080	219	4.2
1,170	224	4.3
1,260	232	4.2
1,350	241	4.6
1,440	243	4.7
1,530	238	4.6
1,620	242	5.8
1,710	248	6.4
1,800	252	5.6
End: Smoke		
No. 61: 30g b.; Lantern: 25g.; 0443; 5/8/40; CS U; NS S; V: 5; −41.3C; 974.6 mb.		
Sfc	173	0.9
108	190	4.0
216	222	2.5
315	241	2.9
414	217	4.3
513	206	4.7
612	191	4.4
706	187	5.4
801	188	6.6
895	183	8.2
990	179	8.2
1,080	179	6.8
End: Entered N8 at 1,140 m. (5:50). Light fall of ice crystals began during observation		
No. 62: 30g b.; Lantern: 25g.; 0232; 5/10/40; 00; V: 8; −47.0C; 975.4 mb.		
Sfc	132	3.6
108	114	10.2
216	104	8.8
315	101	5.9
414	112	4.4
513	116	3.6
612	120	2.8
706	124	2.5
801	126	3.4
895	128	4.6
990	128	5.1
1,080	119	5.5
1,170	105	6.2
1,260	100	7.1
1,350	98	7.2
1,440	90	6.8
1,530	90	7.2
1,620	96	8.1
1,710	98	8.6
1,800	99	8.7
1,890	101	9.1
2,070	96	9.0
2,250	92	9.2
2,430	97	9.8
End: Distance (13:50)		
No. 63: 28g b.; Lantern: 25g.; 0237; 5/14/40; AS S; V: 9; −44.3C; 1002.0 mb.		
Sfc	171	1.8
108	203	3.4
216	256	2.8
315	277	3.8
414	243	3.3
513	188	2.2
612	178	6.2
706	178	5.9
801	169	5.1
895	155	5.7
990	156	6.6
1,080	165	7.3
1,170	173	7.7
1,260	173	8.5
1,350	169	8.2
1,440	167	7.5
1,530	167	6.8
1,620	167	6.5
1,710	164	6.5
1,800	161	5.8
1,890	159	4.9
2,070	157	3.9
2,250	157	4.0
End: Smoke		
No. 64: 26g b.; Lantern: 25g.; 0242; 5/16/40; 00; V: 7; −48.3C; 1006.8 mb.		
Sfc	120	4.5
108	119	16.2
216	119	13.7
315	123	8.7
414	120	7.6
513	118	7.2
612	134	4.1
706	159	3.2
*801	148	3.6
895	139	3.6
*Interpolated.		
End: Smoke and steam		

TABLE 8.—*Individual pilot balloon ascents, Little America III*—Continued

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 65: 27g b.; Lantern: 25g.; 0517; 5/22/40; CC S; V: 8; −34.4C; 974.7 mb.		
Sfc	182	4.5
108	183	10.9
216	190	12.3
315	197	10.4
414	205	9.6
513	204	7.6
612	196	5.6
706	182	4.4
801	191	4.0
895	209	4.6
990	204	4.3
1,080	186	3.0
1,170	176	1.3
1,260	223	1.4
1,350	208	2.4
1,440	182	2.4
1,530	184	2.6
1,620	192	3.4
1,710	189	3.8
1,800	195	3.3
1,890	208	4.3
2,070	217	5.6
End: Distance		
No. 66: 32g b.; Lantern: 25g.; 0141; 5/24/40; 00; V: 8; −40.9C; 991.8 mb.		
Sfc	62	1.3
108	275	4.0
216	273	5.7
315	285	7.2
414	307	9.0
513	320	11.3
612	324	14.1
706	331	13.4
801	339	11.4
End: Moonlight and smoke		
No. 67: 27g b.; Lantern: 25g.; 0238; 5/30/40; SC W; V: 8; −41.7C; 990.2 mb.		
Sfc	222	5.4
108	206	10.7
216	207	12.4
315	213	11.3
414	222	11.3
513	233	12.1
612	248	10.7
706	265	9.4
801	274	8.2
895	282	7.2
990	289	7.0
End: Local smoke		
No. 68: 29g b.; Lantern: 25g.; 0245; 6/1/40; AC W; V: 8; −49.4C; 973.2 mb.		
Sfc	194	3.6
108	211	8.3
216	222	9.7
315	231	9.3
414	239	9.3
513	239	9.3
612	239	9.1
706	240	8.8
801	243	8.0
895	246	8.3
990	247	8.6
1,080	250	8.1
1,170	254	6.8
1,260	259	5.7
1,350	255	5.9
1,440	259	6.3
1,530	257	6.6
1,620	247	6.4
End: Local smoke		
No. 69: 28g b.; Lantern: 25g.; 0241; 6/2/40; 00; V: 8; −45.7C; 991.4 mb.		
Sfc	352	3.1
108	334	7.1
216	310	6.2
315	283	5.8
414	264	5.7
513	246	5.1
612	231	5.0
706	227	5.6
801	222	5.0
895	214	4.4
End: Local smoke		
No. 70: 25g b.; Lantern: 25g.; 0258; 6/4/40; AC W; V: 8; −48.9C; 985.8 mb.		
Sfc	208	0.9
108	258	3.6
216	248	4.0
315	236	4.6
414	233	5.2
513	243	5.8
612	251	7.1
706	249	8.5
801	245	9.3
895	242	9.2
990	248	9.5
1,080	254	8.6
1,170	262	7.3
1,260	264	7.4
End: Local smoke and vapor. Very light fall of snow crystals		
No. 71: 31g b.; Lantern: 25g.; 0244; 6/6/40; 00; V: 8; −47.7C; 988.0 mb.		
Sfc	209	1.8
108	199	10.4
216	204	10.0
315	213	7.6
414	223	7.9
513	235	8.5
612	241	8.6
706	238	8.9
801	231	9.0
895	224	9.8
990	216	10.2
1,080	210	9.8
1,170	207	10.7
1,260	206	11.6
1,350	203	13.0
1,440	200	15.4
1,530	203	16.2
1,620	207	15.6
End: Local smoke and aurora		
No. 72: 29g b.; Lantern: 25g.; 0236; 6/10/40; CS U; V: 8; −26.2C; 975.3 mb.		
Sfc	107	4.0
108	347	4.0
216	324	5.5
315	321	5.3
414	312	5.6
513	314	7.6
612	307	7.8
706	293	7.7
801	290	9.3
*895	287	9.8
990	278	9.4
1,080	264	9.4
1,170	263	8.6
1,260	271	8.5
1,350	270	8.9
End: Local smoke and vapor; aurora		
No. 73: 29g b.; Lantern: 25g.; 0228; 6/13/40; 00; V: 8; −30.7C; 983.6 mb.		
Sfc	272	4.9
108	257	7.0
216	246	7.2
315	236	7.2
414	232	7.7
513	235	8.9
612	246	9.6
706	262	9.8
801	271	11.4
895	272	12.4
End: Rapid motion and moon light		
No. 74: 30g b.; Lantern: 25g.; 0748; 6/29/40; AC NW; V: 8; −30.4C; 980.3 mb.		
Sfc	330	0.9
108	300	5.5
216	280	5.8
315	266	5.7
414	272	6.9
513	280	6.4
612	316	4.0
706	336	2.8
801	345	1.8
895	348	1.0
990	300	0.8
1,080	355	0.4
1,170	348	1.2
1,260	331	2.4
1,350	317	2.9
1,440	296	2.7
1,530	280	2.2
1,620	281	1.8
1,710	299	1.8
1,800	312	2.5
1,890	314	2.9
2,070	324	3.8
2,250	330	4.4
End: Vapor from adjacent ventilator (12:35)		
No. 75: 30g b.; Lantern: 25g.; 0300; 7/6/40; SC SE; V: 7; −21.8C; 976.7 mb.		
Sfc	100	5.4
108	131	5.0
216	153	5.2
End: Entered SC 282 m. (1:20)		
No. 76: 27g b.; Lantern: 25g.; 0122; 7/7/40; AC SE; V: 8; −29.6C; 973.8 mb.		
Sfc	117	4.0
108	136	4.2
216	160	4.7
315	147	7.9
414	137	11.1
513	140	10.8
612	143	9.4
706	140	9.3
801	139	8.6
895	143	8.3
990	150	7.6
1,080	152	10.2
1,170	149	12.0
1,260	148	9.8
End: Aurora		
No. 77: 29g b.; Lantern: 25g.; 0332; 7/8/40; 00; V: 9; −38.0C; 977.2 mb.		
Sfc	213	5.8
108	190	12.5
216	188	13.0
315	186	14.2
414	185	16.2
513	185	16.5
612	183	16.2
No. 77—Continued		
706	186	15.5
801	183	14.4
895	178	14.6
990	177	14.4
1,080	178	13.4
End: Bright aurora		
No. 78: 26g b.; Lantern: 25g.; 0227; 7/10/40; AS U; V: 6; −46.8C; 989.2 mb.		
Sfc	221	7.2
108	215	9.7
216	217	12.2
315	217	12.5
414	224	10.6
513	237	8.2
612	237	7.4
706	236	7.3
801	237	7.6
895	241	9.4
990	247	11.0
1,080	251	10.6
1,170	249	8.5
1,260	244	8.4
1,350	247	9.4
1,440	241	8.3
1,530	233	7.8
End: Light drift		
No. 79: 30g b.; Lantern: 25g.; 0432; 7/13/40; AS U; V: 9; −46.0C; 986.6 mb.		
Sfc	87	3.6
108	78	8.3
216	68	6.2
315	54	3.8
414	46	3.0
End: Local vapor		
No. 80: 29g b.; Lantern: 25g.; 0243; 7/14/40; SC N; V: 6; −47.0C; 990.2 mb.		
Sfc	67	3.1
108	30	4.8
216	356	4.6
315	342	4.1
414	345	3.9
513	4	4.0
612	10	3.6
675	1	3.0
End: Entered SC 675m. (3:20)		
No. 81: 30g b.; Lantern: 25g.; 0506; 7/19/40; CS E; V: 5; −51.2C; 965.6 mb.		
Sfc	150	1.8
108	98	4.8
216	56	2.9
315	70	2.2
414	70	2.3
513	50	3.6
612	49	3.6
706	54	3.7
801	53	3.7
895	55	2.8
990	72	2.1
1,080	104	2.1
1,170	109	3.5
1,260	107	4.5
1,350	108	4.6
1,440	105	4.4
1,530	109	4.0
1,620	120	4.3
1,710	120	4.6
1,800	109	5.0
1,890	103	5.2
1,980	102	5.2
2,070	109	4.1
2,160	117	3.7
2,250	112	4.3
2,340	123	4.3
2,430	132	4.6
End: Distance		
No. 82: 32g b.; Lantern: 25g.; 0507; 7/21/40; AS S; V: 7−37.0C; 971.6 mb.		
Sfc	225	4.0
108	202	8.8
216	193	10.0
315	190	9.5
414	192	9.2
513	192	9.0
612	191	8.9
706	192	9.0
801	193	8.6
895	189	8.3
990	179	6.7
1,080	170	5.0
End: Entered AS 1,035 m. (5:15)		
No. 83: 33g b.; Lantern: 25g.; 0517; 7/23/40; AS S; V: 8; −38.6C; 994.9 mb.		
Sfc	220	2.7
108	203	5.9
216	191	3.3
315	164	2.4
414	151	3.4
513	152	3.8
612	156	4.1
706	175	5.2
801	194	8.7
895	200	10.4
990	201	9.8
1,080	200	9.1
1,170	197	8.8
1,260	190	9.2
1,350	187	8.6
1,440	189	7.4
1,530	183	7.5
1,620	176	7.5
1,710	174	6.9
1,800	170	5.6
1,890	170	4.6
End: Distance		
No. 84: 27g b.; Lantern: 25g.; 0141; 7/24/40; AC WNW; ST WNW; V: 8; −28.7C; 996.3 mb.		
Sfc	335	3.6
108	334	8.5
216	318	8.8
315	302	9.7
414	296	11.1
513	291	11.7
612	289	11.4
706	288	11.4
801	287	11.6
End: Entered ST 770 m. (3:50)		
No. 85: 32g b.; Lantern: 25g.; 0447; 7/30/40; SC N; V: 7; −17.2C; 984.4 mb.		
Sfc	95	0.9
108	282	0.3
216	312	2.0
315	349	2.8
414	1	1.9
End: Entered SC 445 m. (2:15)		
No. 86: 28g b.; Lantern: 25g.; 1106; 7/31/40; ST SE; V: 6; −22.0C; 967.3 mb.		
Sfc	136	7.2
108	144	5.9
216	149	7.0
315	142	8.6
414	140	10.0
End: Entered ST 414m. (2:00) Run during lull in wind; light snow falling		

*Interpolated.

TABLE 8.—*Individual pilot balloon ascents, Little America III*—Continued

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 87: 28g b.; Lantern: 25g.; 1026; 8/1/40; SC S; V: 7; −35.2C; 974.4 mb.		
Sfc	191	4.5
108	197	9.8
216	198	16.6
315	199	19.9
End: Possibly entered clouds 351 m. (1:40)		
No. 88: 28g b.; Lantern: 25g.; 0814; 8/3/40; 00; V: 8; −45.6C; 977.0 mb.		
Sfc	249	2.7
108	220	4.8
216	210	5.4
315	219	5.0
414	234	5.5
513	241	6.4
612	245	7.5
706	242	8.7
801	238	8.8
895	238	9.7
990	245	7.8
1,080	267	5.9
1,170	282	6.2
1,260	285	6.6
1,350	292	6.1
1,440	303	5.9
1,530	314	5.3
1,620	326	4.7
1,710	328	4.5
1,800	329	4.0
1,890	330	4.1
1,980	309	4.4
2,070	297	5.1
2,160	300	5.0
2,250	306	4.5
2,340	311	3.7
2,430	310	3.1
End: Distance and local vapor		
No. 89: 28g b.; Lantern: 25g.; 0749; 8/4/40; AC E; V: 9; −47.7C; 966.3 mb.		
Sfc	193	2.2
108	184	2.7
216	145	2.0
315	129	2.2
414	120	2.1
513	132	1.9
612	138	2.6
706	140	3.7
801	135	4.1
895	133	4.6
990	134	4.5
1,080	133	4.4
1,170	135	4.4
1,260	141	4.8
1,350	143	4.9
1,440	144	4.9
1,530	137	5.6
1,620	132	6.1
1,710	132	6.2
1,800	128	6.4
1,890	125	6.5
1,980	122	6.4
End: Distance		
No. 90: 29g b.; Lantern: 25g.; 0817; 8/5/40; AC S; V: 8; −51.6C; 958.9 mb.		
Sfc	167	2.7
108	199	8.3
216	205	9.8
315	202	8.8
414	197	9.3
513	198	10.7
612	204	11.1
706	203	10.7
801	197	10.2
895	194	11.2
990	190	11.3
1,080	180	8.6
1,170	172	7.6
End: Local vapor		
No. 91: 28g b.; Lantern: 25g.; 0532; 8/6/40; AC SE; V: 7; −40.0C; 958.3 mb.		
Sfc	126	3.1
108	73	4.1
216	73	5.1
315	71	4.8
414	82	4.9
513	104	5.7
612	114	6.9
706	123	7.6
801	141	7.1
895	152	7.5
990	157	7.6
1,080	157	7.2
1,170	138	6.6
1,260	119	7.2
1,350	113	7.8
1,440	110	8.6
1,530	114	8.9
1,620	118	8.9
End: Local vapor		
No. 92: 29g b.; Lantern: 25g.; 0527; 8/7/40; AC E; V: 8; −27.6C; 963.3 mb.		
Sfc	23	6.3
108	14	11.1
216	12	11.6
315	10	10.4
414	9	11.2
513	13	11.6
612	19	12.4
706	18	14.7
801	16	15.2
895	15	14.8
End: Distance		
No. 93: 32g b.; Lantern; 25g.; 0734; 8/9/40; CS U; V: 8; −37.2C; 972.3 mb.		
Sfc	206	3.1
108	192	4.2
216	160	2.6
315	213	1.2
414	229	1.6
513	195	1.0
612	114	1.6
706	111	3.4
801	108	3.8
895	86	3.8
990	61	2.0
1,080	91	0.8
1,170	111	2.2
1,260	91	2.1
1,350	62	1.8
1,440	67	2.4
*1,530	78	2.8
*1,620	84	2.6
*1,710	100	2.4
*1,800	117	3.2
1,890	117	5.4
1,980	115	6.8
End: Lost among bright stars		
No. 94: 35g b.; Lantern: 25g.; 0819; 8/10/40; ST. ESE; V: 6; −36.1C; 970.0 mb.		
Sfc	167	4.0
108	132	15.6
216	126	19.8
315	122	18.8
414	122	18.2
513	121	16.3
612	117	14.2
706	118	12.3
801	116	10.8
895	116	10.5
990	116	11.4
End: Entered ST		
No. 95: 33g b.; Lantern: 25g.; 0516; 8/13/40; AS NW; V: 7; −37.4C; 968.8 mb.		
Sfc	258	2.2
108	248	7.1
216	245	7.4
315	248	7.1
414	246	6.8
513	238	5.8
612	222	4.4
706	217	3.7
801	229	5.5
895	229	7.6
990	220	7.7
1,080	221	7.2
1,170	227	7.2
1,260	224	7.3
1,350	225	8.5
1,440	220	8.8
1,530	221	8.3
1,620	229	8.6
1,710	228	9.2
1,800	223	9.6
1,890	217	10.4
1,980	199	11.3
2,070	185	12.7
End: Distance		
No. 96: 31g b.; Lantern: 25g.; 0833; 8/15/40; NS NW; V: 8; −38.3C; 960.0 mb.		
Sfc	0	1.3
108	330	5.9
216	322	6.8
315	302	6.3
414	285	8.1
513	278	8.6
612	293	6.3
706	313	6.8
801	315	6.8
895	325	5.7
990	333	5.0
1,080	340	4.7
1,170	347	5.7
1,260	349	6.8
1,350	353	8.0
1,440	354	8.6
End: Local smoke. Lunar corona		
No. 97: 32g b.; Lantern: 25g.; 0820; 8/16/40; AS NE; SC NW; V: 5; −31.4C; 967.8 mb.		
Sfc	98	5.4
108	80	6.4
216	49	3.4
315	360	2.6
414	344	3.2
513	335	3.9
612	326	4.8
706	322	5.4
801	319	3.9
895	321	2.6
990	327	2.4
End: Entered SC		
No. 98: 31g b.; Lantern: 25g.; 0714; 8/17/40; AC SE; V:9; −39.6C; 971.9 mb.		
Sfc	23	2.2
108	360	3.5
216	353	3.7
315	347	2.8
414	356	2.3
513	19	2.3
612	35	2.4
706	30	2.2
801	24	2.0
895	50	2.7
990	53	4.4
1,080	46	5.1
1,170	50	4.4
1,260	62	4.2
1,350	61	4.0
1,440	48	3.7
1,530	72	4.7
1,620	70	4.7
1,710	67	5.5
1,800	64	5.5
End: Vanished		
No. 99: 30g b.; Lantern: 25g.; 0740; 8/18/40; AC SE; V: 7; −38.0C; 966.3 mb.		
Sfc	54	2.2
108	129	14.4
216	123	16.1
315	123	12.1
414	132	10.5
513	144	9.2
612	155	8.6
706	160	7.5
801	156	6.8
895	149	7.2
End: Entered AC 959 m. (4:50)		
No. 100: 100g r.; 2346; 8/24/40; CI U; AC&AS S; V: 6; −29.4C; 961.9 mb.		
Sfc	170	6.4
175	165	10.0
350	149	10.2
510	146	11.7
670	145	11.8
825	153	10.6
980	166	10.1
1,130	172	10.3
1,285	177	10.4
1,415	182	8.5
1,585	183	7.1
End: Entered AC		
No. 101: 104g w.; 2242; 8/25/40; AC NW; V: 6; −47.3C; 963.5 mb.		
Sfc	224	1.8
175	226	11.8
350	223	16.2
510	223	13.8
670	234	11.0
825	240	9.8
980	244	9.2
1,130	247	8.0
1,285	245	6.4
1,415	241	6.1
1,585	236	6.2
1,735	231	7.2
1,880	238	8.2
2,025	243	9.8
2,170	237	10.3
2,310	233	10.6
2,455	233	10.8
2,600	237	10.9
2,740	241	9.7
2,880	242	8.6
3,020	249	7.8
3,300	257	7.1
3,580	260	7.1
3,855	258	6.8
4,130	264	5.0
4,405	305	4.2
4,675	316	6.1
4,945	322	7.3
5,215	332	7.4
5,485	332	7.8
5,755	336	8.1
6,025	333	8.6
6,295	329	8.5
6,565	333	8.6
6,835	343	8.8
7,105	352	9.4
7,375	348	9.3
7,645	346	9.2
7,915	343	10.2
8,185	336	9.7
8,455	331	9.2
8,730	321	9.9
9,005	311	10.5
9,285	322	10.2
9,565	329	10.3
9,850	314	10.3
10,135	294	10.4
10,420	304	10.8
10,710	295	12.0
11,005	294	12.2
11,300	310	11.2
11,595	297	11.4
11,890	296	13.6
12,185	297	14.3
12,480	298	13.6
12,775	297	13.4
No. 101—Continued		
13,075	293	16.3
13,375	291	13.8
13,675	294	19.3
13,975	296	29.2
14,275	296	29.3
End: Burst (?)		
No. 102: 32g r.; 2351; 8/26/40; ST W; V: 8; −39.1C; 961.4 mb.		
Sfc	218	2.7
108	205	8.1
216	220	8.5
315	245	8.1
414	266	8.7
513	267	9.6
612	261	9.8
706	258	10.3
801	254	10.2
895	253	8.5
990	255	7.5
End: Entered ST 959 m. (4:50)		
No. 103: 33g r.; 2256; 8/27/40; SC W; V: 8; −44.8C; 977.3 mb.		
Sfc	115	2.2
108	272	8.3
216	278	12.5
End: Entered SC 198 m. (0:55)		
No. 104: 30g r.; 0054; 8/29/40; SC S; V: 7; −33.2C; 972.9 mb.		
Sfc	199	5.4
108	190	8.8
216	190	9.8
End: Entered SC 180 m. (0:50)		
No. 105: 105g w.; 0113; 8/30/40; AC W; V: 9; −47.9C; 975.4 mb.		
Sfc	200	1.4
175	208	3.2
350	226	4.7
510	220	1.3
670	213	9.6
825	216	10.1
980	219	9.3
1,130	223	8.3
1,285	224	7.7
1,415	223	6.8
1,585	226	6.3
1,735	234	5.8
1,880	235	5.0
2,025	238	5.9
2,170	246	6.6
2,310	249	6.2
2,455	251	6.2
2,600	255	5.7
2,740	250	5.8
2,880	249	7.2
3,020	254	7.0
3,160	260	6.2
3,300	264	6.2
3,440	268	5.8
3,580	274	4.8
3,855	292	5.0
4,130	291	6.8
4,405	285	8.6
4,675	282	8.7
4,945	281	11.8
5,215	283	12.0
5,485	283	13.7
5,755	282	15.7
6,025	280	15.5
6,295	281	15.8
6,565	277	16.8
6,835	282	18.1
7,105	285	18.9
7,375	278	18.2
7,645	277	16.3
7,915	278	13.6
8,185	284	13.6
8,455	283	13.2
8,730	280	12.8
9,005	279	13.2

*Interpolated.

TABLE 8.—*Individual pilot balloon ascents, Little America III*—Continued

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 105—Continued		
9,285	276	14.8
9,565	272	15.9
9,850	272	13.7
10,135	273	15.0
10,420	279	14.6
10,710	281	14.0
11,005	275	16.0
11,300	275	14.7
11,595	274	13.5
End: Lost		
No. 106: 105g w.; 0117; 9/1/40; AC W; V: 8; −57.8C; 977.7 mb.		
Sfc	259	1.4
175	245	7.8
350	248	12.3
510	248	12.8
670	241	13.2
825	236	13.8
980	231	13.6
1,130	230	13.3
1,285	233	12.1
1,415	236	11.4
1,585	237	10.4
1,735	236	9.8
1,880	237	9.8
2,025	244	8.3
2,170	248	9.0
2,310	250	10.0
2,455	253	9.3
2,600	258	7.8
2,740	265	6.4
2,880	258	6.7
3,020	257	5.9
3,300	272	6.2
3,580	285	7.4
End: Lost		
No. 107: 33g r.; 0038; 9/2/40; SC W; V: 5; −49.3C; 982.2 mb.		
Sfc	102	6.7
108	113	4.8
216	221	2.3
315	260	2.7
414	292	4.2
513	282	7.6
612	281	10.3
706	284	11.2
End: Entered SC. Visibility decreasing		
No. 108: 104g w.; 0117; 9/3/40; Hazy; V: 9; −55.2C; 970.0 mb.		
Sfc	190	3.6
175	182	4.7
350	157	6.0
510	154	7.8
670	161	7.3
825	164	7.0
980	165	6.4
1,130	163	5.7
1,285	164	5.0
1,415	172	5.1
1,585	168	6.7
1,735	169	6.6
1,880	187	5.7
2,025	190	5.8
2,170	183	5.3
2,310	187	6.3
2,455	188	6.6
2,600	190	6.8
2,740	178	6.2
2,880	175	6.7
3,020	187	6.5
3,300	192	7.1
3,580	188	7.2
3,855	193	7.3
4,130	202	7.4
4,405	212	7.6
4,675	218	8.0
4,945	227	7.8
5,215	233	7.9
5,485	235	8.6
5,755	239	8.6
6,025	242	8.5
6,295	244	8.8
6,565	248	8.4
6,835	251	8.7
7,105	252	9.1
7,375	247	8.7
7,645	246	8.4
7,915	253	7.8
8,185	258	7.4
8,455	255	6.3
8,730	251	5.6
9,005	250	6.0
*9,285	250	6.2
9,565	256	6.2
*9,850	257	5.9
10,135	264	5.7
10,420	267	6.4
10,710	263	6.8
11,005	264	6.4
11,300	260	6.2
11,595	261	7.6
11,890	269	7.4
12,185	272	6.6
12,480	265	8.7
12,775	262	10.2
End: Haze and darkness		
No. 109: 103g w.; 0147; 9/4/40; 00; V:5; −56.4C; 968.7 mb.		
Sfc	124	4.9
175	98	9.9
350	69	5.5
510	47	4.2
670	58	3.6
825	33	3.0
980	36	3.0
1,130	61	5.5
1,285	58	3.5
1,415	58	3.2
1,585	60	3.8
1,735	53	4.0
1,880	45	4.1
2,025	51	4.6
2,170	58	4.9
2,310	63	5.1
2,455	67	5.1
2,600	72	4.4
2,740	85	3.9
2,880	102	4.3
3,020	105	4.2
3,300	108	3.3
3,580	89	2.6
3,855	75	3.8
4,130	75	4.2
4,405	75	3.9
4,675	69	3.4
4,945	55	2.6
5,215	61	2.7
5,485	57	3.6
5,755	39	4.1
6,025	26	4.4
6,295	22	4.2
6,565	16	3.4
6,835	9	3.0
7,105	17	3.0
7,375	27	2.7
7,645	32	3.2
7,915	36	3.1
8,185	37	2.5
8,455	32	3.1
8,730	17	3.3
9,005	357	2.5
9,285	354	2.6
9,565	347	2.7
9,850	332	2.5
10,135	323	2.3
10,420	318	2.0
10,710	345	1.8
11,005	315	1.6
11,300	268	2.2
11,595	263	2.1
11,890	280	2.0
12,185	312	1.1
12,480	322	1.6
12,775	295	3.2
13,075	284	3.6
End: Burst (46:20)		
No. 110: 105g w.; 0115; 9/5/40; 00; V: 7; −53.4C; 965.5 mb.		
Sfc	210	2.6
175	219	3.6
350	201	6.2
510	207	7.5
670	203	7.7
825	197	7.1
980	188	7.0
1,130	178	6.3
1,285	167	4.4
1,415	172	4.5
1,585	181	3.9
1,735	158	3.8
1,880	144	4.0
2,025	151	3.9
2,170	156	3.6
2,310	148	2.4
2,455	129	3.1
2,600	125	4.2
2,740	114	4.6
2,880	105	4.7
3,020	98	4.9
3,300	95	5.4
3,580	94	5.5
3,855	90	5.9
4,130	85	6.5
4,405	80	7.4
4,675	75	7.8
4,945	73	8.5
5,215	80	8.2
5,485	84	7.8
5,755	79	7.6
6,025	80	7.7
6,295	80	8.5
6,565	85	8.2
6,835	97	8.4
7,105	100	8.7
7,375	99	8.5
7,645	100	7.8
7,915	98	7.6
8,185	93	7.4
8,455	87	7.7
8,730	83	6.8
9,005	99	4.3
9,285	131	3.8
9,565	146	3.0
9,850	157	2.4
10,135	180	4.4
10,420	189	5.2
10,710	203	5.5
11,005	198	6.1
11,300	186	7.5
11,595	182	7.4
11,890	198	5.7
12,185	219	6.1
12,480	217	5.7
End: Burst in two pieces (44:30)		
No. 111; 105g w.; 0146; 9/6/40; 00; V: 8; −56.9C; 964.0 mb.		
Sfc	124	3.5
175	124	3.8
*350	207	0.8
510	304	0.8
*670	18	1.0
*825	72	1.2
980	118	1.3
*1,130	113	1.9
1,285	127	2.4
1,415	150	3.0
1,585	156	3.0
1,735	158	3.0
1,880	156	3.7
2,025	158	4.2
2,170	160	5.7
2,310	160	5.8
2,455	156	5.2
2,600	144	4.6
2,740	158	3.7
2,880	161	3.8
3,020	168	4.3
3,300	169	4.8
3,580	162	5.0
3,855	167	5.5
4,130	170	5.7
4,405	165	5.2
4,675	172	3.8
4,945	178	4.0
5,215	174	4.9
5,485	184	4.9
5,755	184	6.0
6,025	173	8.0
6,295	168	8.3
6,565	173	7.7
6,835	188	7.8
7,105	179	8.0
7,375	175	8.2
7,645	172	8.6
7,915	175	8.6
8,185	178	9.8
8,455	180	9.8
8,730	183	8.6
9,005	182	8.8
9,285	185	8.7
9,565	199	9.1
9,850	202	11.2
10,135	201	11.2
10,420	204	10.6
10,710	204	11.1
11,005	209	11.5
11,300	208	11.7
11,595	201	10.2
11,890	205	9.5
12,185	208	11.3
12,480	208	12.7
12,775	204	14.6
13,075	202	14.7
13,375	221	14.0
13,675	225	17.5
13,975	220	19.8
End: Burst (49:54)		
No. 112; 103g w.; 0147; 9/7/40; 00; V: 8; −48.3C; 967.0 mb.		
Sfc	221	6.3
175	203	15.2
350	203	16.9
510	202	17.7
670	200	16.6
825	200	14.9
980	200	14.0
1,130	200	15.5
1,285	203	15.7
1,415	204	14.3
1,585	203	14.7
1,735	197	16.2
1,880	197	16.5
2,025	203	15.7
2,170	207	15.3
2,310	208	15.9
2,455	210	15.6
2,600	210	14.8
2,740	207	14.5
2,880	204	16.3
3,020	200	15.5
3,300	193	13.7
3,580	183	14.4
3,855	195	14.2
4,130	208	14.4
4,405	206	15.4
4,675	206	15.4
4,945	205	14.8
5,215	208	11.7
5,485	219	9.3
5,755	232	8.8
6,025	236	7.8
6,295	218	8.2
6,565	215	10.4
6,835	217	12.0
7,105	215	13.0
7,375	218	14.5
7,645	218	17.2
7,915	213	20.5
8,185	207	22.5
8,455	198	20.5
8,730	193	15.5
9,005	192	13.0
9,285	207	15.5
9,565	213	16.0
9,850	214	19.5
10,135	215	18.0
10,420	215	15.5
10,710	225	14.5
11,005	223	16.0
11,300	214	17.5
11,595	216	19.5
11,890	215	19.5
12,185	210	17.5
12,480	210	17.5
12,775	212	17.0
13,075	215	20.0
13,375	215	20.5
13,675	223	18.5
13,975	229	17.0
End: Distance (or burst?)		
No. 113: 102g w.; 0130; 9/8/40; 00; V: 8; −53.2C; 967.3 mb.		
Sfc	118	4.1
175	148	4.3
*350	172	8.3
510	183	12.0
670	188	10.7
825	195	11.3
980	201	14.2
1,130	200	17.8
1,285	200	19.5
*1,415	199	17.4
1,585	201	15.4
*1,735	207	15.2
1,880	211	16.2
2,025	213	17.1
2,170	211	17.4
2,310	208	16.7
2,455	205	17.2
2,600	205	16.7
2,740	206	17.3
2,880	206	18.5
3,020	206	17.8
3,300	209	18.0
3,580	213	18.2
3,855	210	19.0
4,130	208	20.4
4,405	207	20.6
4,675	206	20.6
4,945	210	19.8
5,215	212	22.0
5,485	213	25.5
5,755	216	27.5
6,025	218	29.0
6,295	216	31.0
6,565	215	31.0
6,835	215	33.0
7,105	214	32.5
7,375	215	30.5
7,645	213	34.0
7,915	213	35.5
8,185	215	34.0
8,455	215	36.0
8,730	217	38.0
9,005	217	36.0
9,285	213	36.0
End: Distance (33:15)		
No. 114: 105g w.; 0116; 9/9/40; CS WSW; V: 8; −53.2C; 979.8 mb.		
Sfc	194	2.7
175	192	12.2
350	200	11.7
*510	206	10.6
670	211	10.9
*825	224	11.2
980	230	8.7
1,130	228	6.1
1,285	228	7.1
1,415	223	8.5
1,585	218	8.8
1,735	219	8.3
1,880	221	8.2
2,025	222	7.7
2,170	224	7.8
2,310	221	8.0
2,455	220	8.6
2,600	222	8.9
2,740	224	9.8
2,880	226	10.4
3,020	223	12.2
3,300	223	14.1
3,580	227	14.9
3,855	229	15.3
4,130	232	15.7
4,405	233	16.8
4,675	233	17.3
4,945	235	16.3
5,215	237	16.2
5,485	237	16.8

*Interpolated.

TABLE 8.—*Individual pilot balloon ascents, Little America III*—Continued

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 114—Continued		
5,755	238	17.2
6,025	239	17.5
6,295	243	18.2
6,565	245	19.4
6,835	243	20.2
7,105	243	19.8
7,375	243	21.9
7,645	251	22.0
7,915	256	22.0
8,185	256	25.5
8,455	256	28.5
End: Distance (30:10)		
No. 115; 105g w.; 0210; 9/11/40; CI W; AS W; V: 7; −51.0C; 982.5 mb.		
Sfc	117	1.8
175	220	4.2
350	229	9.6
510	227	13.3
670	232	14.2
825	238	14.3
980	237	14.3
1,130	231	14.2
1,285	229	14.2
1,415	232	14.2
1,585	237	11.5
1,735	242	10.7
1,880	247	11.2
2,025	250	11.2
2,170	252	11.3
2,310	251	11.7
2,455	253	13.2
2,600	255	13.6
2,740	264	15.1
2,880	271	17.6
3,020	273	16.8
End: Local smoke		
No. 116: 33g r.; 0208; 9/12/40; SC ENNW; V: 7; −37.0C; 984.1 mb.		
Sfc	112	7.2
108	113	16.7
216	110	13.5
315	114	10.6
414	116	9.8
513	117	9.0
612	113	8.5
706	106	9.3
801	94	9.2
895	72	8.2
990	55	8.7
1,080	48	8.2
1,170	43	5.1
1,260	27	2.3
1,350	329	2.6
1,440	310	3.9
1,530	301	5.7
1,620	294	7.1
1,710	292	7.0
1,800	291	5.1
1,890	299	2.6
1,980	297	2.3
2,070	312	2.7
2,160	354	2.5
2,250	15	4.7
2,340	10	7.5
2,430	8	7.9
2,520	10	8.3
2,610	14	9.5
2,700	16	4.8
End: Lost in cloud. Balloon in wisps of cloud after 8th minute—bottom of cloud indefinite		
No. 117: 105g w.; 0110; 9/15/40; CI NW; AC NW; V:9; −55.4C; 971.2 mb.		
Sfc	211	1.8
175	244	0.8
350	213	3.2
510	196	6.7
670	177	8.7
825	178	8.9
980	179	9.2
1,130	179	9.8
1,285	180	9.9
1,415	186	9.6
No. 117—Continued		
1,585	188	9.3
1,735	188	9.6
1,880	187	9.0
2,025	186	8.7
2,170	184	9.2
2,310	187	10.2
2,455	191	11.0
2,600	190	10.7
2,740	190	11.8
2,880	195	11.7
3,020	199	12.0
3,300	201	12.4
3,580	200	11.2
3,855	198	10.1
4,130	196	10.5
4,405	199	9.8
4,675	199	10.1
4,945	200	11.3
5,215	202	10.9
5,485	199	12.1
5,755	197	13.1
6,025	198	12.7
6,295	201	14.3
6,565	201	13.9
6,835	202	13.1
7,105	202	13.5
7,375	203	12.7
7,645	207	14.0
7,915	209	15.1
8,185	212	14.0
8,455	216	12.7
8,730	211	13.5
9,005	208	15.3
9,285	206	17.0
9,565	205	16.5
9,850	205	15.5
10,135	207	16.6
10,420	215	14.8
10,710	217	13.8
11,005	217	15.1
11,300	221	11.7
11,595	222	10.6
11,890	220	12.8
12,185	223	11.6
12,480	226	12.0
12,775	228	13.7
13,075	237	14.7
13,375	245	14.5
13,675	252	15.5
13,975	254	17.5
14,275	254	17.8
End: Burst (50:10)		
No. 118: 105g w.; 0133; 9/17/40; CI W; AS W; V: 7; −45.0C; 972.6 mb.		
Sfc	198	4.5
175	190	9.6
350	178	8.7
510	170	11.8
670	172	13.2
825	176	12.2
980	180	12.1
1,130	177	12.5
1,285	174	12.5
1,415	171	12.3
1,585	167	12.8
1,735	163	12.9
1,880	157	11.6
2,025	150	10.0
2,170	153	9.3
2,310	164	5.7
2,455	191	6.9
2,600	199	9.4
2,740	200	10.5
2,880	192	12.1
3,020	189	12.3
3,300	185	13.2
3,580	184	14.2
3,855	186	14.1
*4,130	189	14.8
4,405	185	15.2
4,675	184	14.6
4,945	187	14.3
5,215	186	14.2
5,485	182	15.1
5,755	179	15.3
*In thin clouds.		
End: Distance (20:40)		
No. 119: 105g w.; 0131; 9/18/40; 00; V: 8; −50.5C; 974.9 mb.		
Sfc	163	2.7
175	84	3.0
350	39	2.3
510	59	2.4
670	14	1.2
825	120	1.5
980	118	3.1
1,130	128	4.8
1,285	136	5.3
1,415	143	5.8
1,585	150	7.5
1,735	150	8.2
1,880	145	8.4
2,025	136	8.3
2,170	130	7.6
2,310	130	6.8
2,455	130	7.2
2,600	132	8.1
2,740	136	8.5
2,880	137	9.0
3,020	136	8.8
3,300	133	9.5
3,580	130	10.6
3,855	123	10.2
4,130	114	10.7
4,405	113	10.8
4,675	121	11.0
4,945	124	12.6
5,215	122	14.5
5,485	118	15.7
5,755	113	16.2
6,025	108	16.7
6,295	107	15.6
6,565	108	16.7
6,835	109	17.7
7,105	117	14.1
7,375	122	15.4
7,645	118	16.4
7,915	117	13.9
8,185	115	13.2
8,455	115	12.5
8,730	119	9.5
9,005	128	9.0
9,285	124	9.0
9,565	132	9.5
9,850	138	6.0
10,135	132	4.5
10,420	144	4.0
10,710	175	4.5
11,005	180	6.5
11,300	178	5.5
11,595	180	5.0
11,890	195	4.5
12,185	210	3.5
12,480	211	3.5
12,775	214	5.5
13,075	220	5.5
13,375	238	4.5
13,675	239	3.5
13,975	232	6.5
14,275	232	7.0
14,570	232	5.0
14,860	240	9.0
15,145	245	10.0
15,425	245	9.0
15,705	233	8.5
15,985	240	8.0
16,265	255	10.5
16,545	249	11.0
16,825	231	8.0
17,105	229	8.5
17,385	240	12.5
17,670	244	14.0
17,950	240	14.0
18,235	232	14.5
18,515	235	14.5
18,795	239	15.5
19,080	240	16.0
19,360	249	15.0
19,645	249	15.5
19,925	259	16.5
20,210	257	20.0
20,490	257	20.5
20,775	256	18.5
21,055	253	18.0
21,340	252	20.0
21,620	252	21.0
21,905	250	21.0
22,185	244	20.5
22,470	244	21.0
22,750	242	22.5
23,035	240	24.5
23,315	238	27.0
23,600	237	27.0
No. 119—Continued		
23,880	236	28.5
24,165	236	30.5
24,445	241	31.0
24,730	240	34.0
25,010	242	31.0
25,295	243	32.0
25,575	242	37.0
25,860	243	35.0
26,140	242	34.0
26,425	237	35.0
26,705	234	37.0
26,990	235	37.0
27,270	234	37.0
27,555	232	36.0
27,835	233	35.0
28,120	235	35.0
End: Distance—28,120 m. (1:39:00). Entire run made with smoke blowing across observatory		
No. 120: 105g w.; 0135; 9/19/40; 00; V: 8; −47.1C; 976.7 mb.		
Sfc	192	6.3
175	36	2.4
*250	314	3.1
510	298	3.3
*670	288	1.6
825	119	0.6
980	101	2.3
*1,130	98	2.9
1,285	108	4.6
*1,415	120	6.6
1,585	125	6.4
1,735	122	6.5
1,880	124	7.0
2,025	122	7.3
2,170	116	7.4
2,310	122	7.6
2,455	132	7.3
2,600	141	6.7
2,740	145	6.2
2,880	141	6.1
3,020	144	6.3
3,300	147	6.8
3,580	147	7.0
3,855	147	7.4
4,130	142	8.8
4,405	135	10.3
4,675	137	11.6
4,945	147	12.2
5,215	141	12.7
5,485	129	14.8
5,755	131	15.6
6,025	137	15.6
6,295	139	15.8
6,565	136	16.8
6,835	135	16.8
7,105	142	14.4
7,375	146	12.8
7,645	147	11.0
7,915	155	10.3
8,185	156	10.4
8,455	158	8.7
8,730	160	7.7
9,005	166	8.1
9,285	179	8.2
9,565	177	7.2
9,850	165	4.8
10,135	187	4.0
10,420	200	5.0
10,710	222	4.1
11,005	247	5.7
11,300	221	6.8
11,595	199	6.0
11,890	216	3.3
12,185	251	4.7
12,480	257	5.7
12,775	262	7.5
13,075	263	9.0
*Interpolated.		
End: Burst?		
No. 121: 105g r.; 0110; 9/20/40; CS NW; AS NW; V: 7; −47.4C; 976.4 mb.		
Sfc	163	2.7
175	115	8.3
350	96	4.6
510	92	3.2
670	101	3.0
825	111	3.2
No. 121—Continued		
980	125	2.8
1,130	138	2.2
1,285	138	2.6
1,415	140	3.2
1,585	128	3.6
1,735	122	3.8
1,880	131	4.2
2,025	134	4.2
2,170	129	5.4
2,310	125	6.3
2,455	129	5.4
2,600	138	5.7
2,740	141	6.4
2,880	138	6.5
3,020	136	6.2
3,300	128	6.1
3,580	123	6.3
3,855	126	6.3
4,130	129	6.2
End: Lost during pause to rub cheeks. Smoke across hatch		
No. 122: 105g w.; 0152; 9/21/40; CS NW; AC W; V: 7; −47.1C; 964.8 mb.		
Sfc	166	2.7
175	223	2.7
350	250	3.5
510	243	6.3
670	246	8.1
825	245	8.4
980	244	8.4
1,130	240	8.1
1,285	235	6.5
1,415	235	5.8
1,585	226	6.7
1,735	214	7.3
1,880	203	6.8
2,025	193	6.8
2,170	180	7.1
2,310	186	10.3
2,455	187	12.2
2,600	180	10.6
2,740	188	10.9
2,880	189	11.2
3,020	185	11.1
3,300	184	11.2
3,580	188	11.7
3,855	191	11.8
4,130	190	11.6
4,405	186	11.2
4,675	188	11.4
4,945	193	13.0
5,215	192	13.9
5,485	185	12.5
5,755	186	11.0
6,025	191	10.4
6,295	188	8.6
6,565	178	7.1
6,835	177	7.4
7,105	185	6.2
7,375	193	4.8
7,645	195	5.1
7,915	187	6.5
8,185	182	5.4
8,455	189	3.8
8,730	206	4.5
9,005	216	4.1
9,285	234	3.9
9,565	249	5.0
End: CS thickening below. Entry in clouds indefinite due to local smoke		
No. 123: 33g r.; 0103; 9/22/40; 00; V: 3; −46.0C; 965.1 mb.		
Sfc	48	0.9
108	287	8.5
216	301	11.5
315	287	8.6
414	276	8.7
End: Disappeared. Low clouds lowered to fog with clear sky during preparations for run		

TABLE 8.—*Individual pilot balloon ascents, Little America III*—Continued

No. 124: 103g w.; 0102, 9/23/40; CI NNW; V: 8; −37.4C; 974.2 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	48	0.9
175	40	7.7
350	29	6.5
510	24	5.3
670	19	5.1
825	19	5.3
980	24	6.1
1,130	27	7.7
1,285	21	6.9
1,415	6	7.7
1,585	356	9.7
1,735	347	9.2
1,880	347	9.0
2,025	353	12.3
2,170	352	13.5
2,310	349	13.1
2,455	349	12.2
2,600	348	11.2
2,740	347	11.1
2,880	349	11.0
3,020	351	10.3
3,300	355	12.3
3,580	354	13.8
3,855	354	13.1
4,130	356	12.1
4,405	356	10.5
4,675	355	9.3
4,945	346	12.0
5,215	340	14.3
5,485	336	13.1
5,755	334	12.0
6,025	333	13.8
6,295	331	14.3
6,565	328	14.2
6,835	330	14.0
7,105	334	12.1
7,375	337	11.4
7,645	333	12.2
7,915	332	12.8
8,185	327	14.3
8,455	315	11.0
8,730	317	13.0
9,005	321	15.0
9,285	318	14.8
*9,565	314	16.0
9,850	313	18.8
10,135	317	18.3
10,420	315	15.9
10,710	309	15.9
11,005	307	14.4
11,300	309	15.0
11,595	313	15.1
11,890	307	13.0
12,185	300	14.8
12,480	298	17.2
12,775	305	15.5
13,075	312	17.1
13,375	306	19.2
13,675	302	19.8

*Behind radio pole—interpolated.
End: Burst 13,950 m. (48:57)

No. 125: 31g b.; 0221; 9/27/40; SC SE; V:6; −25.8C; 974.9 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	160	1.8
108	165	3.2
216	143	3.0
315	120	1.8
414	106	3.3
513	106	3.7
612	100	4.6
706	99	5.2
801	98	4.9
895	103	4.5
990	113	3.3
1,080	125	2.3
*1,170	127	2.3
1,260	127	2.4
1,350	129	2.4

*Interpolated.
End: Entered SC 1,260 m. (6:30)

No. 126: 34g b.; 0226; 9/28/40; CS NE; V: 8; −27.6C; 971.9 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	201	2.7
108	146	9.4
216	145	11.0
315	145	12.7
414	137	15.7
513	131	16.9
612	127	14.6

No. 126—Continued

Height (meters) m.s.l.	Direction N=360°	Speed m/s
706	131	12.1
801	147	10.0
895	154	10.0
990	156	11.9
1,080	155	12.8
1,170	148	11.7
1,260	145	10.4
1,350	141	9.6
1,440	142	7.9
1,530	147	7.0
1,620	153	7.0
1,710	150	8.0
1,800	147	8.9
1,890	146	7.3
2,070	144	6.7
2,250	140	6.7
2,430	130	6.4
2,610	127	7.4
2,790	118	7.0
2,970	105	6.8
3,150	98	7.4
3,330	87	8.3
3,510	77	7.7
3,690	67	6.4
3,870	58	6.0
4,050	61	6.1
4,230	65	6.0
4,410	64	6.4
4,590	65	7.7
4,770	61	9.8
4,950	48	12.0
5,130	40	12.8

End: Entered CS

No. 127: Raob*; 0230; 9/29/40; AC NE; V:9; −21.4C; 966.4 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	85	3.1
Data missing#		
665	88	10.4
735	83	11.2
805	81	12.5
865	84	13.8
945	84	14.5
1,015	84	13.5
1,095	85	11.6
1,175	88	13.8
1,255	89	17.8
1,335	91	18.1
1,425	92	17.5
1,505	92	18.0
1,595	93	19.5
1,685	93	15.8
1,765	91	15.7
1,845	88	15.5
1,935	78	8.0
2,015	69	8.0
2,105	75	12.4
2,185	77	14.2
2,265	81	6.2
2,355	83	8.4
2,445	80	8.4

*Radiosonde balloon, 350g; Raysonde 1375g; Free lift 300g.
#First 4 readings disregarded.

End: Entered AC 2,415 m. (13:50)

No. 128: 34g b.; 1256; 9/30/40; CC E; V: 1; −14.4 C; 965.4 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	109	10.7
108	112	18.5
216	103	16.7
315	91	13.9
414	81	13.8
513	77	13.4
612	73	14.7
706	67	17.1
801	61	17.5
895	57	17.2
990	55	17.1
1,080	56	16.7
1,170	60	17.1
1,260	63	17.3
1,350	65	17.9
1,440	67	20.2
1,530	67	19.7
1,620	67	17.9
1,710	65	18.2
1,800	65	19.0

No. 128—Continued

Height (meters) m.s.l.	Direction N=360°	Speed m/s
1,890	62	18.4
2,070	57	17.1
2,250	56	16.1
2,430	57	16.0

End: Drifting snow. Drift low except off end of main building, behind which balloon was lost

No. 129: 103g w.; 0100; 10/3/40; CS U; V: 9; −23.3 C; 988.1 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	214	2.7
175	199	5.0
350	175	5.8
510	157	6.2
670	167	7.2
825	168	10.0
980	169	10.2
1,130	173	7.9
1,285	163	7.3
1,415	153	7.4
1,585	150	7.1
1,735	153	6.1
1,880	160	5.9
2,025	153	7.1
2,170	147	7.7
2,310	146	7.2
2,455	150	6.3
2,600	150	7.1
2,740	141	8.1
2,880	124	6.8
3,020	114	7.0
3,300	103	7.6
3,580	102	7.6
3,855	98	7.3
4,130	90	7.5
4,405	89	7.1
4,675	73	7.5
4,945	63	7.9
5,215	71	5.3
5,485	77	4.4
5,755	94	4.4
6,025	134	4.4
6,295	159	4.8
6,565	185	4.9
6,835	204	5.5
7,105	215	5.9
7,375	222	5.8
7,645	231	6.2
7,915	234	7.0
8,185	234	6.0
8,455	241	5.8
8,730	243	8.1
9,005	244	7.4
9,285	245	6.5
9,565	240	7.0
9,850	234	5.5
10,135	234	5.5
10,420	238	4.1
10,710	285	3.6
11,005	285	6.4
11,300	271	7.5
11,595	239	7.3
11,890	195	6.2
12,185	161	4.1
12,480	202	3.4
12,775	217	4.5
13,075	227	5.2
13,375	231	6.2
13,675	234	4.8
13,975	257	3.5
14,275	252	4.4
*14,570	220	7.0
*14,860	199	10.1
*15,145	194	14.0

*Last three readings not used; balloon probably floating.

End: Burst? (53: 42)?

No. 130: 32g b.; 0110; 10/4/40; XX; V: 2; −28.7C; 958.1 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	204	12.1
108	198	13.4
216	197	12.0

End: Drifting snow

No. 131: 31g r.; 0526; 10/5/40; SC W; V: 8; −28.6C; 957.2 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	296	4.0
108	283	12.7
216	281	16.9
315	280	15.8
407	278	14.6

End: Entered SC 363 m. (1:45)

No. 132: 103g w.; 0105; 10/6/40; AC W; V: 9; −25.0C; 975.3 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	177	1.8
175	283	6.0
350	288	9.2
510	281	10.4
670	273	11.5
825	272	12.0
980	270	11.6
1,130	275	13.1
1,285	280	14.3
1,415	282	14.8
1,585	283	16.0
1,735	282	16.7
1,880	278	16.4
2,025	275	15.4
2,170	274	15.7
2,310	275	14.3
2,455	280	13.9
2,600	284	15.2
2,740	285	18.1
2,880	279	19.4
3,020	275	19.6
3,300	272	19.6
3,580	273	18.1
3,855	274	15.5
4,130	269	14.2
4,405	264	13.4
4,675	260	11.8
4,945	258	12.5
5,215	266	16.8
5,485	270	19.5
5,755	269	20.4
6,025	266	20.5
6,295	265	20.3
6,565	267	20.8
6,835	266	20.5
7,105	266	18.5
7,375	268	19.5
7,645	267	21.7
7,915	268	23.2
8,185	266	24.3
8,455	264	24.0
8,730	261	22.4
9,005	261	19.4
9,285	262	16.8

End: Distance

No. 133: 105 g r; 2132; 10/7/40; CI&CS U; CU S; V: 4; −31.2C; 982.7 mb

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	106	8.0
175	132	7.8
350	149	6.6
510	165	6.2
670	167	6.2
825	163	6.3
980	164	6.6
1,130	160	6.3
1,285	157	5.3
1,415	158	4.1
1,585	158	4.3
1,735	154	5.1
1,880	154	5.4
2,025	152	4.9
2,170	145	4.8
2,310	144	4.4
2,455	154	3.7
2,600	169	3.1
2,740	179	2.6
2,880	191	2.3
3,020	198	2.3
3,300	204	2.3

End: Entered CS 3,395 m. (11:20). Light drift

No. 134: 104g w.; 0142; 10/9/40; CI&CS N; V: 9; −34.1C; 968.6 mb

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	207	4.0
175	194	10.0
350	195	10.1
510	196	8.4
670	196	8.8
825	199	9.8
980	202	10.2
1,130	205	9.2
1,285	213	7.2
1,415	217	6.9
1,585	218	7.0
1,735	215	5.9
1,880	219	4.7
2,025	242	2.6
2,170	306	1.0
2,310	343	1.9
2,455	358	2.6
2,600	12	4.2
2,740	13	7.5
2,880	10	9.1
3,020	7	9.3
3,300	2	9.0
3,580	359	8.6
3,855	359	8.9
4,130	358	11.1
4,405	360	15.5
4,675	8	18.0
4,945	15	17.7
5,215	13	15.9
5,485	4	15.0
5,755	358	16.0
6,025	360	16.6
6,295	4	16.4
6,565	4	17.1
6,835	4	17.5
7,105	4	18.0
7,375	6	17.2
7,645	7	16.3
7,915	5	16.9
8,185	1	17.4
8,455	358	16.6
8,730	3	15.1
9,005	6	13.8
9,285	3	12.6
9,565	360	13.9
9,850	358	14.0
10,135	353	12.4
10,420	353	12.2
10,710	357	12.1
11,005	356	10.4
11,300	355	7.4
11,595	354	7.5
11,890	345	7.0
12,185	341	8.0
12,480	345	7.9
12,775	348	6.0
13,075	347	5.2
13,375	334	4.4
13,675	329	4.2
13,975	331	5.5
14,275	305	5.2

End: Burst (53:10). Record ended at 50 min., balloon possibly floating thereafter

No. 135: 105g r; 0342; 10/10/40; CS NE; AC NE; SC NE; V: 8, −30.1C; 969.2 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	205	6.3
175	200	9.9
350	199	10.5
510	203	8.9
670	203	5.7
825	213	3.6
980	234	1.5
1,130	22	1.2
1,210	26	1.4

End: Entered ST

No. 136: 105g w.; 0147; 10/13/40; CS NW; AC NW; V: 9; −34.5C; 962.1 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	168	1.8
175	Calm	---
350	312	1.5
510	274	2.6
670	276	2.6
825	263	2.3
980	254	2.8

TABLE 8.—*Individual pilot balloon ascents, Little America III*—Continued

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 136—Continued		
1,130	256	3.3
1,285	277	3.4
1,415	294	4.2
1,585	293	5.3
1,735	297	5.8
1,880	305	6.8
2,025	306	6.8
2,170	304	6.4
2,310	310	6.5
2,455	310	6.7
2,600	307	6.7
2,740	307	6.7
2,880	309	6.7
3,020	304	6.9
3,300	301	8.4
3,580	302	8.0
3,855	298	7.4
4,130	294	8.6
4,405	294	8.7
4,675	295	8.8
4,945	297	9.2
5,215	298	8.9
5,485	302	9.3
5,755	306	9.7
6,025	307	9.1
6,295	306	9.7
6,565	302	8.6
6,835	298	9.0
7,105	296	8.6
7,375	297	9.0
7,645	296	9.8
7,915	296	9.8
8,185	300	9.0
8,455	297	8.0
8,730	300	8.1
9,005	318	7.7
9,285	323	7.4
9,565	328	6.6
9,850	341	5.7

End: Lost

No. 137: 105g w.; 0144; 10/16/40; CI U; V: 8; −17.7C; 963.4 mb.

Sfc	177	4.0
175	143	12.2
350	127	11.3
510	105	8.2
670	113	6.2
825	123	5.5
980	127	6.0
1,130	144	4.3
1,285	144	2.5
1,415	127	2.7
1,585	134	4.1
1,735	131	3.8
1,880	114	3.5
2,025	100	3.3
2,170	72	2.9
2,310	63	3.3
2,455	64	3.7
2,600	71	3.4
2,740	88	2.5
2,880	101	2.6
3,020	127	2.3
3,300	153	2.7
3,580	135	2.4
3,855	118	2.7
4,130	112	2.6
4,405	97	2.1
4,675	82	1.7
4,945	89	1.1
5,215	129	1.2
5,485	115	1.3
5,755	75	1.2
6,025	32	1.7
6,295	30	2.8
6,565	40	3.6
6,835	49	3.7
7,105	52	3.6
7,375	49	3.8
7,645	49	3.4
7,915	37	4.7
8,185	19	5.4
8,455	352	5.5
8,730	346	6.0
9,005	348	6.2
9,285	342	7.3
9,565	336	8.2
9,850	332	8.5
10,135	331	7.8
10,420	332	8.5
10,710	331	9.3
11,005	330	10.6

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 137—Continued		
11,300	330	12.0
11,595	327	10.7
11,890	326	11.6
12,185	325	13.4
12,480	315	13.4
12,775	311	13.2
13,075	317	14.4
13,375	317	15.7

End: Burst

No. 138: 96g w.; 0151; 10/17/40; CI U; AC SW; FS SW; V: 7; −22.5C; 952.2 mb.

Sfc	248	4.5
175	213	6.2
350	206	5.6
510	214	5.0
670	223	5.2
825	238	4.8
980	231	3.3
1,130	227	2.6
1,285	239	3.5
1,415	234	5.0
1,585	235	5.5
1,735	240	7.4
1,880	242	8.5
2,025	245	8.4
2,170	248	9.0
2,310	245	10.2
2,455	245	12.0
2,600	247	11.9
2,740	248	12.5
2,880	247	13.5
3,020	245	13.7
3,300	247	14.6
3,580	250	15.6
3,855	250	15.6
4,130	249	15.5
4,405	248	15.5
4,675	253	15.9
4,945	248	14.6
5,215	237	14.4

End: Obscured by FS

No. 139: 105g r.; 0350; 10/18/40; CS ENE; V: 6; −26.2C; 955.8 mb.

Sfc	184	6.3
175	182	12.5
350	176	11.1
510	176	10.7
670	173	10.6
825	173	9.6
980	177	9.9
1,130	183	10.8
1,285	186	10.1
1,415	182	9.0
1,585	175	8.1
1,735	170	7.8
1,880	171	7.6
2,025	172	7.0
2,170	173	7.2
2,310	175	7.4
2,455	178	8.2
2,600	184	8.1
2,740	192	7.5
2,880	189	7.5
3,020	192	7.7
3,300	186	7.2
3,580	169	6.0
3,855	162	5.9
4,130	165	6.3
4,405	161	6.0
4,675	145	5.3
4,945	122	4.9
5,215	97	5.4
5,485	75	7.0
5,755	65	8.3
6,025	62	8.4

End: Entered CS 4405 m. (15:00)

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 140: 105g r.; 0358; 10/20/40; AC U; V: 9; −22.0C; 963.3 mb.		
Sfc	217	2.2
175	219	4.0
350	226	4.2
510	250	3.9
670	284	3.5
825	322	4.7
980	343	5.5
1,130	342	5.5
1,285	359	3.5
1,415	21	2.9
1,585	35	2.1
1,735	25	1.4
1,880	308	2.3
2,025	287	4.4
2,170	287	4.9
2,310	291	5.0
2,455	288	5.2
2,600	282	4.9
2,740	281	5.1
2,880	280	5.5
3,020	278	6.0
3,300	277	6.9
3,580	271	7.1
3,855	267	7.0
4,130	273	7.5
4,405	272	9.1
4,675	267	10.7
4,945	263	10.5
5,215	270	10.3
5,485	275	11.6
5,755	276	13.2
6,025	276	14.6
6,295	274	15.2
6,565	275	13.5
6,835	277	13.0
7,105	277	14.0
7,375	277	13.5
7,645	276	12.7
7,915	281	11.7
8,185	285	9.5
8,455	293	7.8
8,730	304	6.0
9,005	331	4.4
9,285	335	7.3
9,565	329	8.7
9,850	329	6.8
10,135	316	6.5
10,420	313	7.4
10,710	322	7.3
11,005	321	6.3
11,300	309	5.5
11,595	321	5.1
11,890	327	5.4
12,185	329	6.0
12,480	334	7.5
12,775	332	7.9
13,075	323	7.4
13,375	314	7.5
13,675	313	5.9
13,975	311	4.8
14,275	316	4.9
14,570	317	4.9
14,860	312	5.0

End: Burst

No. 141: 35g b.; 0349; 10/22/40; AS N; V: 7; −13.5C; 969.6 mb.

Sfc	105	8.0
108	96	10.9
216	80	9.5
315	67	8.4
414	65	8.6
513	65	8.7
612	64	7.8
706	57	7.0
801	45	8.0
895	39	9.2
990	35	8.9
1,080	34	8.8
1,170	37	8.9
1,260	40	9.5
1,350	44	10.6
1,440	48	11.2
1,530	47	11.4
1,620	41	12.0
1,710	37	12.3
1,890	22	12.2
2,070	12	12.4

End: Entered AS 1,995 m. (10:25)

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 142: 100g w.; 0402; 10/23/40; CI NE; V: 8; −22.1C; 974.2 mb.		
Sfc	81	4.5
175	64	4.0
350	24	3.1
510	43	4.4
670	75	6.3
825	84	7.0
980	77	7.3
1,130	81	7.8
1,285	86	10.4
1,415	81	12.1
1,585	74	11.4
1,735	75	11.5
1,880	81	11.0
2,025	83	9.8
2,170	78	9.8
2,310	73	11.5
2,455	73	11.5
2,600	70	11.1
2,740	65	11.4
2,880	61	12.0
3,020	59	12.6
3,300	60	13.7
3,580	62	14.0
3,855	62	14.6
4,130	63	15.6
4,405	64	15.4
4,675	63	14.1
4,945	64	13.4
5,215	62	14.4
5,485	58	14.0
5,755	53	12.9
6,025	51	12.1
6,295	53	12.0
6,565	54	12.5
6,835	52	13.5
7,105	47	14.4
7,375	40	13.6
7,645	42	13.2
7,915	49	13.0
8,185	46	14.9
8,455	36	16.0
8,730	31	15.5
9,005	34	13.8
9,285	37	11.8
9,565	35	11.8
9,850	33	10.5
10,135	25	9.1
10,420	22	10.5
10,710	17	8.8
11,005	351	5.6
11,300	354	3.0
11,595	352	3.5
11,890	350	3.5
12,185	330	3.8
12,480	309	3.8
12,775	322	4.0
13,075	318	5.0
13,375	285	5.0
13,675	277	3.8
13,975	290	8.4
14,275	285	3.6
14,570	311	3.2
14,860	332	5.2
15,145	328	6.8
15,425	328	6.8
15,705	339	6.1
15,985	356	8.9
16,265	6	12.5
16,545	7	13.3
16,825	6	12.0
17,105	13	11.2
17,385	23	12.0
17,670	28	11.5
17,950	24	10.0
18,235	14	11.0
18,515	5	10.0
18,795	9	8.4
19,080	20	8.4
19,360	19	10.5
19,645	6	12.0
19,925	5	10.8
20,210	8	12.5
20,490	355	12.8
20,775	354	12.0
21,055	357	14.9
21,340	353	9.6

End: Burst

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 143: 103g w; 0128; 10/24/40; CI SW; V: 9; −19.8C; 977.8 mb.		
Sfc	209	8.9
175	199	15.0
350	204	17.6
510	207	18.8
670	206	19.2
825	207	17.4
980	206	16.6
1,130	199	16.4
1,285	191	15.1
1,415	185	14.8
1,585	185	14.6
1,735	188	15.7
1,880	188	17.4
2,025	188	16.7
2,170	189	16.4
2,310	187	15.2
2,455	185	14.8
2,600	184	14.3
2,740	183	14.8
2,880	185	14.8
3,020	187	15.1
3,300	188	16.5
3,580	189	17.8
3,855	189	18.1
4,130	191	19.9
4,405	192	20.8
4,675	191	19.7
4,945	191	19.8
5,215	193	19.8
5,485	192	19.2
5,755	192	20.4
6,025	192	18.1
6,295	192	16.8
6,565	195	16.4
6,835	201	16.2
7,105	198	16.2
7,375	195	14.7
7,645	196	15.2
7,915	197	13.4
8,185	195	11.2
8,455	195	13.0
8,730	200	13.5
9,005	200	16.4
9,285	196	20.3
9,565	200	20.6
9,850	204	23.6
10,135	207	24.7
10,420	207	22.2
10,710	205	24.0
11,005	206	25.0
11,300	209	24.0
11,595	206	24.0
11,890	214	24.0
12,185	220	18.0
12,480	219	13.0
12,775	220	14.0
13,075	213	14.0
13,375	223	11.0
13,675	234	12.0
13,975	233	14.0
14,275	230	17.0
14,570	221	18.0

End: Distance. At 0158 wind 8.9 m/s. Light surface drift starting

No. 144: 34g r.; 0411; 10/24/40; CI U; V: 9; −21.6C; 976.8 mb.

Sfc	214	4.0
108	205	10.0
216	200	14.7
315	202	15.3
414	199	14.0
513	197	12.3
612	198	14.0
706	199	17.0
801	200	17.3
895	197	15.5
990	194	13.6
1,080	195	10.8
1,170	194	9.4
1,260	189	8.6
1,350	187	7.8
1,440	182	8.0
1,530	175	7.8
1,620	171	7.6
1,710	174	8.0
1,800	181	9.0

TABLE 8.—*Individual pilot balloon ascents, Little America III*—Continued

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 144—Continued		
1,890	187	9.7
1,980	191	10.8
2,070	192	12.1
2,160	189	13.6
2,250	188	13.5
End: Abandoned. (Second run within 2 hours)		
No. 145: 104g w.; 1840; 10/24/40; CI S; V: 9; −30.2C; 976.4 mb.		
Sfc	115	1.8
175	93	3.7
350	126	4.2
510	155	5.7
670	158	6.8
825	155	6.5
980	160	6.9
1,130	168	7.8
1,285	169	8.1
1,415	165	8.8
1,585	167	9.6
1,735	169	9.0
1,880	172	8.3
2,025	174	7.7
2,170	168	8.3
2,310	162	8.7
2,455	159	7.8
2,600	155	7.7
2,740	151	7.6
2,880	152	6.4
3,020	152	6.3
3,300	151	5.9
3,580	153	5.2
3,855	158	5.2
4,130	159	6.0
4,405	159	6.6
4,675	164	6.8
4,945	170	7.9
5,215	171	8.4
5,485	168	7.6
5,755	167	7.5
6,025	169	7.1
6,295	169	6.7
6,565	168	6.6
6,835	173	5.6
7,105	179	5.5
7,375	172	5.7
7,645	172	5.5
7,915	181	4.8
8,185	196	4.0
8,455	197	4.9
8,730	196	5.5
9,005	196	5.8
9,285	198	6.4
9,565	202	7.0
9,850	205	7.3
10,135	215	7.0
10,420	220	7.8
10,710	215	8.3
11,005	219	7.4
11,300	219	7.1
11,595	228	7.5
11,890	239	8.9
12,185	230	10.9
12,480	227	10.4
12,775	236	10.0
13,075	236	10.4
13,375	220	9.5
13,675	214	9.0
End: Burst		
No. 146: 31g r.; 2215; 10/24/40; CI S; V: 9; −21.8C; 975.4 mb.		
Sfc	200	2.2
108	205	2.3
216	195	2.2
315	162	4.0
414	161	5.2
513	160	5.7
612	161	6.0
706	162	7.2
801	160	8.1
895	153	8.0
990	146	8.1
1,080	144	7.5
1,170	150	7.3
1,260	152	7.9
1,350	150	8.7
1,440	146	8.3
1,530	144	7.3
No. 146—Continued		
1,620	147	7.2
1,710	150	7.1
1,800	151	6.3
1,890	157	6.2
2,070	160	6.8
2,250	159	6.8
2,430	152	6.4
2,610	147	6.1
2,790	148	5.2
2,970	155	4.8
3,150	153	4.8
3,330	144	4.4
3,510	143	3.5
3,690	147	2.6
End: Abandoned. (Second run in 3 hours)		
No. 147: 105 g w.; 2234; 10/25/40; CI SW; V: 9; −22.9C; 971.8 mb		
Sfc	206	3.6
175	184	8.0
350	175	6.3
510	184	6.4
670	181	8.4
825	181	7.4
980	188	6.5
1,130	186	7.5
1,285	182	9.3
1,415	183	10.5
1,585	185	11.0
1,735	190	11.2
1,880	191	12.0
2,025	188	11.8
2,170	185	10.5
2,310	186	9.8
2,455	188	9.9
2,600	191	9.6
2,740	187	9.6
2,880	189	10.0
3,020	190	9.1
3,300	196	8.5
3,580	203	8.6
3,855	205	8.5
4,130	204	8.0
4,405	205	8.4
4,675	199	12.1
4,945	198	17.0
5,215	202	16.8
5,485	204	16.4
5,755	204	17.9
6,025	203	18.8
6,295	203	17.4
6,565	204	17.1
6,835	205	16.4
7,105	205	16.0
7,375	201	15.8
7,645	197	20.8
7,915	194	20.0
8,185	199	16.4
8,455	207	16.8
8,730	211	14.5
9,005	216	9.5
9,285	228	8.1
9,565	234	9.0
9,850	231	9.5
10,135	231	8.4
10,420	225	9.9
10,710	223	11.2
11,005	225	10.9
11,300	235	7.2
11,595	247	6.0
11,890	239	8.2
12,185	239	10.3
12,480	241	12.5
12,775	240	13.5
13,075	246	13.0
13,375	241	15.3
13,675	240	15.9
13,975	250	12.6
End: Distance		
No. 148: 101g w.; 0334; 10/26/40; CI SW; V: 9; −22.2C; 971.9 mb.		
Sfc	226	1.8
175	191	6.5
350	187	5.7
510	190	6.2
670	194	8.0
825	197	8.8
980	196	9.4
1,130	196	9.0
1,285	201	8.8
1,415	204	8.2
1,585	212	7.9
1,735	218	8.1
1,880	217	8.1
2,025	220	7.9
2,170	220	7.7
2,310	215	7.7
2,455	216	7.7
2,600	219	6.8
2,740	223	5.3
2,880	227	4.5
3,020	233	5.4
3,300	238	6.6
3,580	238	6.9
3,855	232	7.0
4,130	225	7.3
4,405	225	8.1
4,675	222	9.2
4,945	216	9.0
5,215	211	9.8
5,485	206	11.6
5,755	204	13.0
6,025	201	14.6
6,295	201	16.4
6,565	205	17.4
6,835	209	17.6
7,105	212	17.9
7,375	210	17.2
7,645	207	19.0
7,915	207	20.1
8,185	212	22.5
8,455	211	23.0
8,730	211	21.3
9,005	211	21.2
9,285	217	22.0
9,565	218	21.1
9,850	210	15.6
10,135	220	10.1
10,420	233	10.8
10,710	241	10.1
11,005	245	10.1
11,300	233	11.1
*11,595	234	10.5
11,890	242	11.0
12,185	249	12.8
12,480	247	14.4
12,775	247	15.2
13,075	247	14.8
13,375	240	14.4
13,675	245	13.1
13,975	257	12.8
14,275	251	15.5
14,570	243	17.2
14,860	247	16.0
15,145	250	16.0
15,425	243	15.9
15,705	245	15.9
15,985	242	19.0
16,265	240	20.8
16,545	241	22.0
16,825	249	24.0
17,105	250	24.4
17,385	244	28.5
17,670	243	26.9
17,950	244	24.0
*Interpolated.		
End: Distance		
No. 149: 105g r.; 0059; 10/27/40; CS WNW; AC WNW; V: 9; −22.6C; 968.6 mb.		
Sfc	103	3.1
175	102	7.1
350	94	4.9
510	79	2.5
670	61	3.3
825	107	1.1
980	238	2.1
1,130	293	2.1
1,285	287	3.4
1,415	285	4.9
No. 149—Continued		
1,585	281	5.0
1,735	284	5.5
1,880	288	5.3
2,025	293	5.3
2,170	294	6.0
2,310	292	7.3
2,455	294	7.4
2,600	293	7.6
2,740	294	8.4
2,880	298	8.8
3,020	292	9.0
3,300	285	10.4
3,580	284	11.9
3,855	286	11.9
4,130	289	11.4
4,405	289	11.5
4,675	290	10.6
4,945	290	9.6
5,215	290	9.4
5,485	296	9.2
5,755	304	9.0
6,025	305	8.8
6,295	304	10.3
6,565	302	11.8
6,835	292	12.5
7,105	301	12.6
7,375	308	13.9
7,645	299	14.4
7,915	297	14.1
8,185	296	14.0
8,455	297	14.0
8,730	296	16.0
9,005	297	17.0
9,285	297	16.8
9,565	296	15.0
9,850	291	15.0
10,135	290	14.8
10,420	287	14.5
10,710	291	13.8
11,005	295	14.3
11,300	283	15.4
11,595	280	15.3
11,890	280	15.0
12,185	280	15.1
12,480	280	15.0
12,775	282	14.1
13,075	287	12.5
13,375	284	13.5
13,675	276	14.2
13,975	276	16.5
14,275	263	16.0
14,570	247	14.0
End: Burst		
No. 150: 105g r.; 0447; 10/28/40; CI NE; AS NE; V: 8; −23.9C; 960.8 mb.		
Sfc	123	7.2
175	106	10.4
350	100	3.5
510	32	1.0
670	20	1.4
825	29	2.4
980	42	3.0
1,130	42	3.1
1,285	44	4.0
1,415	47	4.5
1,585	50	5.2
1,735	52	6.0
1,880	50	6.4
2,025	45	6.8
2,170	47	8.0
2,310	52	9.3
2,455	54	9.8
2,600	55	10.5
2,740	55	11.0
2,880	53	11.3
3,020	51	11.2
3,300	48	12.3
3,580	44	13.4
3,855	43	18.8
4,130	46	15.0
4,405	45	15.1
4,675	43	15.4
4,945	45	16.2
5,215	44	16.5
5,485	44	16.5
5,755	44	17.1
6,025	41	17.8
6,295	43	18.0
6,565	45	18.0
6,835	43	18.1
7,105	41	18.8
End: Entered AS		
No. 151: 31g r.; 0449; 10/29/40; SC NNE; V: 6; −11.8C; 964.8 mb.		
Sfc	17	4.9
108	18	8.7
216	15	8.6
315	16	7.8
400	16	8.1
End: Entered SC 315 m. (1: 30)		
No. 152: 34g b.; 0415; 10/30/40; AC ENE; SC E; V: 8; −14.5C; 972.8 mb.		
Sfc	114	9.4
108	107	19.8
216	104	21.3
315	101	18.1
414	94	17.1
513	87	15.9
612	84	13.4
706	76	11.7
801	70	11.7
895	65	11.9
990	59	11.4
1,080	59	11.4
1,170	65	11.8
1,260	70	11.3
1,350	75	12.5
1,440	79	13.9
1,530	79	15.3
1,635	79	16.4
End: Entered AC 1,545 m. (8: 10)		
No. 153: 105g w.; 1 021; 10/30/40; CI E; AC E; V: 9; −20.0C; 971.9 mb.		
Sfc	117	11.2
175	109	16.4
350	99	12.0
510	97	11.7
670	93	13.5
825	88	11.3
980	100	7.4
1,130	119	6.5
1,285	109	5.4
1,415	101	5.0
1,585	111	5.0
1,735	120	5.2
1,880	115	6.2
2,025	105	6.8
2,170	103	7.2
2,310	104	7.7
2,455	102	8.3
2,600	97	8.4
2,740	91	6.9
2,880	90	6.5
3,020	87	6.0
3,300	94	4.0
3,580	114	3.9
3,855	103	5.8
4,130	89	7.0
4,405	85	7.7
4,675	88	7.8
4,945	85	8.6
5,215	80	9.2
5,485	76	8.8
5,755	73	9.4
6,025	71	9.3
6,295	73	9.5
6,565	77	10.2
6,835	84	10.5
7,105	89	10.1
7,375	80	9.6
7,645	71	10.8
7,915	69	10.5
8,185	68	8.7
8,455	68	8.6
8,730	65	8.8
9,005	63	8.7
9,285	62	7.8
9,565	63	6.6
9,850	58	6.5
10,135	44	6.8
10,420	28	5.7
10,710	37	3.3
11,005	44	3.7
11,300	17	4.1
11,595	344	3.8
11,890	332	4.5

TABLE 8.—*Individual pilot balloon ascents, Little America III*—Continued

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 153—Continued		
12,185	335	5.3
12,480	314	4.6
12,775	282	6.2
13,075	279	8.0
End. Burst (49:00). Record ended at 46 min., balloon possibly floating thereafter		
No. 154: 104g w.; 0035; 10/31/40; CS E; AS E; V: 8; −17.5C; 968.6 mb.		
Sfc	139	2.7
175	118	8.7
350	104	8.0
510	103	7.5
670	108	6.2
825	112	4.0
980	102	2.8
1,130	95	3.7
1,285	88	4.6
1,415	80	5.8
1,585	76	6.0
1,735	77	5.4
1,880	85	4.4
2,025	92	3.1
2,170	91	2.1
2,310	82	2.4
2,455	77	3.0
2,600	60	2.8
2,740	65	3.0
2,880	91	3.6
3,020	94	5.3
3,300	96	7.3
3,580	95	8.0
3,855	92	9.1
4,130	89	10.5
4,405	94	11.8
4,675	94	11.2
4,945	85	9.5
5,215	84	8.0
5,485	84	7.5
5,755	75	6.9
6,025	72	5.8
6,295	75	6.0
6,565	78	6.5
6,835	76	7.5
7,105	80	8.5
7,375	88	10.1
7,645	91	11.5
7,915	88	11.5
8,185	82	11.2
8,455	82	11.0
8,730	80	10.6
9,005	82	9.0
9,285	95	7.0
9,565	92	6.5
9,850	80	6.5
10,135	80	5.4
10,420	72	4.5
10,710	69	4.5
11,005	76	4.0
11,300	64	3.5
11,595	62	2.0
11,890	305	2.2
12,185	299	4.0
12,480	280	4.0
12,775	264	5.0
13,075	254	4.9
13,375	258	5.9
13,675	265	7.0
13,975	265	7.5
14,275	265	5.1
14,554	266	6.8
End: Burst		
No. 155: 99g w.; 0227; 11/1/40; CS U; AC ESE; V: 8; −13.7C; 976.6 mb.		
Sfc	109	7.2
175	90	9.0
350	66	5.9
510	66	4.7
670	66	4.5
825	64	5.2
980	75	7.5
1,130	76	7.8
1,285	64	7.6
1,415	60	8.2
No. 155—Continued		
1,585	64	8.0
1,735	72	8.4
1,880	79	8.4
2,025	81	6.7
2,170	88	4.9
2,310	94	4.4
2,455	105	5.9
2,600	115	8.9
2,740	118	11.0
2,880	119	12.4
3,020	121	12.9
3,300	122	13.5
3,580	123	13.5
3,855	120	12.5
4,130	117	10.6
4,405	123	10.0
4,675	126	9.1
4,945	126	8.3
5,215	127	8.4
5,485	129	8.5
5,755	129	8.1
6,025	128	8.6
6,295	129	9.5
6,565	124	10.1
6,835	117	10.5
7,105	117	12.1
7,375	117	10.8
7,645	123	11.5
7,915	123	12.5
8,185	122	12.7
8,455	124	11.1
8,730	130	10.0
End: Obscured by lower AC		
No. 156: 104g w.; 0720; 11/1/40; AS SSE; V: 9; −19.6C; 977.8 mb.		
Sfc	192	3.6
175	196	5.1
350	209	4.5
510	235	4.2
670	267	3.2
825	276	0.6
980	158	1.6
1,130	170	2.8
1,285	164	4.4
1,415	161	6.0
1,585	161	6.0
1,735	158	5.7
1,880	162	7.0
2,025	159	7.1
2,170	151	7.7
2,310	143	9.2
2,455	132	9.8
2,600	127	10.7
2,740	125	11.3
2,880	128	11.8
3,020	125	12.5
3,300	124	12.9
3,580	128	13.2
3,855	127	13.2
4,130	124	12.7
4,405	[illegible]	11.2
4,675	131	11.9
4,945	132	13.4
5,215	132	12.2
5,485	138	10.3
*5,755	150	9.4
6,025	150	8.9
6,295	153	8.7
6,565	166	9.4
6,835	171	9.8
7,105	165	9.4
7,375	162	9.0
7,645	166	9.6
7,915	170	10.0
8,185	165	10.8
8,455	157	9.0
8,730	152	7.0
9,005	146	8.3
9,285	137	8.5
9,565	133	9.0
9,850	140	10.5
10,135	142	10.0
10,420	138	8.0
10,710	140	8.4
11,005	142	10.0
11,300	137	8.0
11,595	143	5.1
11,890	160	4.5
*Interpolated.		
No. 156—Continued		
12,185	174	5.0
12,480	178	6.0
12,775	175	8.0
13,075	179	9.2
13,375	183	6.0
13,675	206	4.5
13,975	220	5.0
14,150	214	4.5
End: Burst		
No. 157: 30g r.; 1049; 11/2/40; SC NE; V: 7; −18.0C; 983.3 mb.		
Sfc	119	5.8
108	92	12.2
216	73	11.6
315	54	9.3
414	44	8.0
513	41	7.3
612	40	6.8
End: Entered SC		
No. 158: 105g w.; 0109; 11/3/40; 00; V: 6; −16.1C; 990.2 mb.		
Sfc	198	7.2
175	189	9.4
350	201	7.5
510	221	5.9
670	222	5.9
825	215	4.8
980	212	3.0
1,130	227	3.3
1,285	223	3.1
1,415	199	1.8
1,585	173	2.0
1,735	168	2.8
1,880	147	3.2
2,025	135	3.9
2,170	138	4.3
2,310	137	4.9
2,455	135	5.1
2,600	136	5.1
2,740	133	5.5
2,880	125	5.9
3,020	132	5.5
3,300	140	5.1
3,580	135	5.5
3,855	133	6.9
4,130	131	7.5
4,405	121	7.6
4,675	111	7.8
4,945	108	8.3
5,215	109	7.5
5,485	109	6.0
5,755	115	5.2
6,025	122	4.4
6,295	134	4.4
6,565	142	4.6
6,835	139	4.0
7,105	143	2.9
7,375	152	2.4
7,645	128	3.5
7,915	99	3.4
8,185	50	2.0
8,455	75	1.5
8,730	76	1.5
9,005	113	2.7
9,285	110	2.4
9,565	99	2.0
End: burst? Ice crystal shower		
No. 159: 104g w.; 2130; 11/3/40 00; V: 9; −16.3C; 997.3 mb.		
Sfc	196	2.2
175	203	5.7
350	207	5.9
510	203	5.0
670	189	3.9
825	168	3.5
980	167	4.6
1,130	169	5.0
1,285	161	5.5
1,415	145	5.6
1,585	127	5.7
1,735	122	5.9
1,880	115	5.9
No. 159—Continued		
2,025	106	5.9
2,170	100	6.6
2,310	95	7.3
2,455	96	6.9
2,600	100	7.0
2,740	105	8.4
2,880	104	8.7
3,020	102	9.1
3,300	97	10.1
3,580	90	11.1
3,855	84	11.5
4,130	77	12.8
4,405	74	14.4
4,675	73	14.8
4,945	69	14.5
5,215	71	13.4
5,485	74	11.5
5,755	79	11.1
6,025	82	12.2
6,295	83	12.6
6,565	81	12.4
6,835	82	12.0
7,105	83	10.9
7,375	80	10.1
7,645	80	10.0
7,915	78	10.0
8,185	79	9.5
8,455	89	9.7
8,730	93	10.9
9,005	97	10.5
9,285	103	6.9
9,565	118	3.9
9,850	138	5.3
10,135	158	5.1
10,420	175	6.2
10,710	168	6.9
11,005	176	7.6
11,300	185	8.4
11,595	187	9.0
11,890	189	8.1
12,185	197	8.5
12,480	212	10.3
12,775	215	11.4
13,075	202	13.0
13,375	200	12.4
13,675	203	12.2
13,975	205	14.4
14,275	212	15.3
14,570	217	15.7
14,860	215	17.2
15,145	215	19.2
15,425	215	21.2
15,705	218	22.2
15,985	220	23.1
16,265	218	24.6
16,545	217	26.6
16,825	215	28.0
17,105	215	27.8
17,385	215	30.0
17,670	215	32.0
17,950	214	32.3
18,235	213	32.4
End: Lost near sun. Burst? Dense sea smoke to north		
No. 160: 105g w.; 0130; 11/5/40; 00; V: 9; −15.4C; 989.8 mb.		
Sfc	161	4.0
175	128	12.5
350	120	15.4
510	115	10.9
670	124	8.0
825	135	7.3
980	144	8.0
1,130	147	10.4
1,285	143	10.2
1,415	137	9.9
1,585	133	10.9
1,735	133	11.9
1,880	133	12.4
2,025	130	11.5
2,170	129	10.6
2,310	129	11.4
2,455	126	11.8
2,600	124	10.9
2,740	126	9.6
2,880	129	9.0
3,020	133	10.1
3,300	134	11.0
3,580	135	11.7
3,855	137	11.4
No. 160—Continued		
4,130	135	10.6
4,405	136	11.0
4,675	140	11.4
4,945	146	12.8
5,215	148	12.0
5,485	144	12.5
5,755	140	12.0
6,025	136	11.0
6,295	134	11.8
6,565	135	11.6
6,835	136	11.0
7,105	143	11.0
7,375	148	11.8
7,645	151	13.0
7,915	149	12.3
8,185	144	11.6
8,455	141	10.6
8,730	144	9.2
9,005	154	8.8
9,285	158	8.4
9,565	158	9.2
9,850	170	8.2
10,135	172	9.0
10,420	172	10.1
10,710	183	8.8
11,005	195	9.6
11,300	196	10.4
11,595	206	10.0
11,890	210	11.0
12,185	201	12.0
12,480	200	14.8
12,775	214	13.2
13,075	221	14.4
13,375	214	15.6
13,675	215	16.8
13,975	215	16.8
14,200	213	15.2
End: Burst. Wind increased to 7.6 m/s by end of run		
No. 161: 105g w.; 0211; 11/7/40; 00; V: 8; −12.0C; 953.7 mb.		
Sfc	133	7.6
175	119	11.4
350	111	10.3
510	111	9.0
670	109	10.5
825	109	11.8
980	104	11.5
1,130	104	15.5
1,285	107	15.0
1,415	105	13.2
1,585	101	11.8
1,735	108	11.2
1,880	122	12.4
2,025	123	12.0
2,170	124	11.5
2,310	126	12.5
2,455	129	13.7
2,600	135	13.9
2,740	141	14.2
2,880	143	15.3
3,020	143	14.8
End: Rapid motion		
No. 162: 105g w.; 0724; 11/8/40; AC E; SC E; V: 9; −12.8C; 985.9 mb.		
Sfc	106	7.2
175	71	11.9
350	63	13.2
510	69	14.4
670	74	13.0
825	74	10.8
980	78	12.0
1,130	82	14.1
1,285	83	16.8
1,415	84	20.0
1,585	87	22.4
1,735	86	23.4
1,880	79	24.0
2,025	76	21.5
2,170	79	18.5
2,310	86	18.5
*2,455	92	21.4
*2,600	98	22.1
2,740	99	22.5
2,880	98	22.8
*Interpolated.		

TABLE 8.—*Individual pilot balloon ascents, Little America III*—Continued

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 162—Continued		
3,020	98	23.9
3,300	95	25.0
3,580	92	24.8
3,855	90	23.5
4,130	89	21.9
4,405	85	19.5
4,675	85	17.5
4,945	87	16.0
5,215	88	15.2
5,485	94	15.6
5,755	100	16.8
6,025	100	16.8
6,295	94	18.8
6,565	91	18.1
6,835	94	17.0
7,105	97	19.8
7,375	97	20.2
7,645	97	21.2
7,915	97	22.0
8,185	92	16.8
8,455	85	13.0
8,730	86	7.2
9,005	98	3.6
9,285	111	7.6
9,565	116	8.0
9,850	133	4.8
10,135	148	3.2
10,420	86	3.0
10,710	174	2.8
11,005	174	3.0
11,300	175	3.6
11,595	192	2.8
11,890	221	4.5
12,185	234	6.8
12,480	233	6.8
12,775	215	6.4
13,075	220	6.6
13,375	244	7.6
13,675	246	7.4
13,975	238	10.4
14,275	240	12.4
14,570	240	12.8
14,860	243	12.4
15,145	240	15.4
15,425	239	17.2
15,705	233	15.6
15,985	227	15.0
16,265	227	16.2
16,545	223	15.6
16,825	229	14.8
17,105	241	17.1
17,385	240	18.4
17,670	233	19.1
17,950	228	20.0
18,230	226	19.9

End: Burst

No. 163: 32g r.; 1113; 11/9/40; SC WNW; V: 8; −10.6C; 985.3 mb.

Sfc	126	2.2
108	138	4.0
216	144	3.4
315	158	2.4
414	206	2.1
513	226	2.1
612	220	1.7
706	200	1.3
801	190	1.3
895	191	1.2
990	204	0.8
1,080	236	1.0
1,170	257	1.2
1,295	291	1.1

End: Entered SC

No. 164: 31g b.; 0445; 11/10/40; SC NE; V: 8; −8.3C; 983.9 mb.

Sfc	103	3.1
108	99	5.8
216	74	4.5
315	66	5.3
414	62	4.2
513	51	3.1
612	33	2.5
706	15	1.9
801	9	1.4
895	26	1.1
990	43	0.6
1,080	69	1.0
1,170	48	2.0
1,260	48	3.2
1,350	57	4.5
1,440	57	4.5
1,530	56	4.2

End: Entered SC 1,500m. (7:50)

No. 165: 30g r.; 0520; 11/11/40; SC NNW; V:8; −9.2C; 987.0 mb.

Sfc	43	3.6
108	1	4.6
216	337	5.5
315	335	6.5
414	339	7.0
513	340	7.4

End: Entered SC 474m. (2:20)

No. 166: 31g b.; 0527; 11/12/40; FC S; V: 7; −9.4C; 989.2 mb.

Sfc	189	0.9
108	208	4.5
216	203	4.3
315	193	3.9
414	190	3.4
513	197	3.5
612	197	3.5
706	196	3.7
801	196	3.8
895	194	4.1
990	195	5.0
1,080	196	5.0

End: Entered FC 990m. (5:00)

No. 167: 105g w.; 0111; 11/13/40; 00*; V: 8; −16.0C; 981.9 mb.

Sfc	188	5.4
175	176	5.9
350	180	5.0
510	203	5.3
670	205	5.8
825	202	7.0
980	204	7.4
1,130	207	7.1
1,285	207	7.9
1,415	208	8.8
1,585	206	8.2
1,735	201	7.9
1,880	193	7.9
2,025	176	7.7
2,170	168	8.1
2,310	170	7.4
2,455	178	7.1
2,600	178	7.5
2,740	174	7.9
2,880	174	7.7
3,020	172	7.8
3,300	172	7.9
3,580	172	7.9
3,855	170	7.7
4,130	167	7.4
4,405	166	6.7
4,675	162	6.4
4,945	166	7.0
5,215	175	6.8
5,485	175	7.9
5,755	175	8.9
6,025	175	9.8
6,295	177	10.0
6,565	178	9.4
6,835	177	8.7
7,105	174	9.2
7,375	173	9.1
7,645	169	7.5
7,915	169	5.2
8,185	181	5.2
8,455	184	6.0
8,730	187	6.0
9,005	205	6.4
9,285	219	7.0
9,565	217	7.4
9,850	219	10.4
10,135	226	12.9

*Few CU over sea N. Ice crystal shower, intensity variable.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 167—Continued		
10,420	231	12.5
10,710	228	13.0
11,005	228	13.5
11,300	229	13.0
11,595	234	12.0
11,890	237	12.9
12,185	234	15.2
12,480	238	16.6
12,775	240	17.0
13,075	234	18.0
13,375	241	18.0
13,675	240	19.2
13,975	227	19.0
14,275	229	16.0
14,570	238	19.0
14,860	238	20.8
15,145	237	19.4
15,425	241	22.2
15,705	235	23.2
15,985	231	21.0
16,265	227	21.4
16,545	231	20.0
16,825	240	22.8
17,105	234	26.4
17,385	221	23.0
17,670	218	19.0
17,950	231	19.0
18,235	236	20.0
18,515	220	16.0
18,795	212	19.0
19,080	226	20.0
19,360	237	20.0

End: Distance. (Burst?)

No. 168: 103g w.; 1052; 11/13/40; 00; V: 9; −21.9C; 979.2 mb.

Sfc	217	3.6
175	191	9.7
350	184	9.2
510	178	8.8
670	165	10.7
825	153	10.8
980	150	10.3
1,130	157	14.0
1,285	158	15.2
1,415	157	13.3
1,585	158	13.7
1,735	160	12.8
1,880	164	11.1
2,025	170	10.2
2,170	170	9.4
2,310	170	9.2
2,455	172	10.5
2,600	174	10.6
2,740	171	10.4
2,880	169	9.4
3,020	166	9.4
3,300	163	9.4
3,580	159	8.8
3,855	155	8.8
4,130	153	8.3
4,405	159	7.8
4,675	165	8.3
4,945	166	8.7
5,215	163	8.4
5,485	162	5.8
5,755	182	4.3
6,025	196	6.3
6,295	198	8.9
6,565	202	10.2
6,835	207	11.6
7,105	211	12.6

End: Abandoned to compute data for pilot; second run this date

No. 169: 105g w.; 0102; 11/15/40; AS ENE; SC ENE, V: 9; −14.8C; 979.1 mb

Sfc	121	4.0
175	73	2.5
350	52	1.9
510	30	1.7
670	3	1.5
825	36	2.6
980	56	4.1
1,130	65	4.9
1,285	72	7.0
1,415	73	7.8

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 169—Continued		
1,585	79	7.0
1,735	82	7.0
1,880	78	7.7
2,025	78	8.9
2,170	81	8.7
2,310	80	8.1
2,455	76	7.6
2,600	76	7.5
2,740	76	7.9
2,880	74	7.1
3,020	73	6.8
3,300	74	6.1
3,580	79	5.9
3,855	89	5.1
4,130	103	4.9
4,405	93	4.9
4,675	83	5.4
4,945	78	6.0
5,215	70	5.5
5,485	70	4.0
5,755	82	3.1
6,025	86	3.0
6,295	94	3.5
6,565	91	3.9
6,835	74	3.8
7,105	55	3.5
7,375	68	2.9
7,645	88	4.1
7,915	88	4.1
8,185	99	4.1
8,455	99	4.9
8,730	93	4.9
9,005	87	4.8

End: Burst? (32:40?) Followed for 24 minutes more but results show speeds to 50 m/s

No. 170: 105g r.; 0806; 11/16/40; AC E; V: 9; −15.3C; 983.0 mb

Sfc	165	3.6
175	158	7.5
350	148	6.4
510	147	4.8
670	126	2.6
*825	59	3.4
*980	36	4.4
1,130	42	4.4
1,285	72	5.4
1,415	85	6.6
#1,585	88	6.9
1,735	90	7.0
1,880	94	6.7
2,025	102	6.3
2,170	114	6.0
2,310	116	6.7
2,455	98	7.1
2,600	90	6.2
2,740	96	5.9
2,880	97	5.9
3,020	100	5.5
3,300	101	5.6
3,580	95	6.0
3,855	87	5.7
4,130	86	5.0
4,405	88	5.2
4,675	82	6.2
4,945	76	6.6
5,215	71	6.5
5,485	72	6.4

*Interpolated.
#Balloon entered break in active AC, thereafter followed above clouds.

End: Obscured by lower AC

No. 171: 98g w.; 0717; 11/17/40; CI E; AC E; SC NW; V: 9; −11.6C; 983.3 mb.

Sfc		Calm
175	298	2.0
350	287	2.5
510	292	3.1
670	313	3.5
825	317	4.1
980	319	3.7
1,130	319	2.5
1,285	330	2.4
1,415	338	2.9

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 171—Continued		
1,585	339	3.3
1,735	330	3.6
1,880	320	3.1
2,025	310	2.3
2,170	315	1.4
2,310	340	1.6
2,455	343	2.5
2,600	1	2.0
2,740	9	1.5
2,880	2	0.6
3,020	7	1.0
3,300	40	2.0
3,580	45	3.4
3,855	68	3.2
4,130	82	4.0
4,405	81	5.5
4,675	94	6.4
4,945	109	6.4
5,215	106	6.5
5,485	105	7.1
5,755	107	7.4
6,025	108	8.1
6,295	113	9.5
6,565	103	12.4
6,835	96	17.9
7,105	94	21.6
7,375	93	21.9
7,645	92	24.2
7,915	91	12.9
8,185	92	11.4
8,455	94	9.5
8,730	91	7.5
9,005	89	5.8
9,285	109	4.0
9,565	143	4.3
9,850	128	4.9
10,135	115	3.9
10,420	120	1.1
10,710	199	1.7
11,005	221	3.6
11,300	238	4.6
11,595	243	5.7
11,890	240	7.5
12,185	236	9.5
12,480	229	9.7
12,775	220	9.0
13,075	226	8.2
13,375	233	8.6
13,675	233	9.9
13,975	232	11.6
14,275	230	13.1
14,570	229	13.9
14,860	229	14.5
15,145	229	15.0

End: Lost

No. 172: 29g r.; 0811; 11/18/40; SC NW; V: 8; −7.0C; 992.0 mb.

Sfc	61	4.9
108	58	8.6
216	67	7.9
315	80	6.4
414	94	5.0
513	108	4.9
612	121	4.4
706	138	3.5
801	171	2.5
895	207	2.8

End: Balloon lost, apparently just before it entered cloud, due to reversal of direction at base of clouds which observed definitely on theodolite 305° true

No. 173: 30g r.; 0827; 11/19/40; SC SW; V: 8; −8.8C; 992.8 mb.

Sfc	35	2.2
108	41	1.7
216	28	1.1
315	357	0.7
414	273	0.6
513	257	1.1
612	252	2.2
706	238	3.8
801	228	4.7
895	223	4.7

TABLE 8.—*Individual pilot balloon ascents, Little America III*—Continued

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 173—Continued		
990	219	4.6
1,080	212	4.4
1,170	215	4.3
1,260	221	4.6
End: Entered SC		
No. 174: 28g r.; 0803; 11/20/40; SC W; V: 8; −10.2C; 990.1 mb.		
Sfc	49	5.4
108	13	6.5
216	354	7.7
315	317	4.8
414	304	3.7
513	287	3.2
612	271	3.8
706	270	4.0
End: Lost. (Entered SC?)		
No. 175: 34g b.; 0921; 11/21/40; ST SW; V: 7; −10.6C; 993.9 mb.		
Sfc	227	4.5
108	243	5.2
216	236	6.5
315	230	7.6
414	229	9.3
513	228	11.9
612	229	13.9
706	230	14.6
End: Entered ST 643m. (3:10)		
No. 176: 31g r.; 0659; 11/22/40; AC W; V: 8; −12.8C; 988.6 mb.		
Sfc	216	0.9
108	212	2.5
216	211	2.8
315	206	2.7
414	189	2.9
513	191	5.1
612	209	8.6
706	225	9.7
801	239	8.9
895	250	8.7
990	257	9.2
1,080	271	9.9
1,170	278	10.7
1,260	278	11.5
1,350	280	11.7
1,440	284	11.1
1,530	285	11.3
1,620	281	11.8
1,710	278	12.0
End: Entered AC		
No. 177: 30g r.; 0804; 11/23/40; CU ESE; V: 8; −11.8C; 977.1 mb.		
Sfc	184	8.0
108	176	11.5
216	163	9.1
315	149	8.0
414	141	8.9
513	139	10.2
612	140	10.8
706	143	10.5
801	147	10.0
895	149	10.5
965	150	11.4
End: Entered CU 927m. (4:40)		
No. 178: 98g w.; 0822; 11/24/40; CI W; AC W; V: 9; −14.5C; 977.3 mb.		
Sfc	141	2.7
175	150	4.4
350	158	5.5
510	155	7.7
670	161	11.0
825	169	10.9
980	185	9.1
1,130	197	9.9
1,285	200	12.0
1,415	202	12.5
1,585	213	8.3
1,735	229	4.5
1,880	234	3.3
2,025	245	3.0
2,170	246	3.4
2,310	245	3.9
2,455	242	4.9
2,600	243	5.2
2,740	248	4.9
2,880	244	5.2
3,020	247	5.1
3,300	246	5.0
3,580	246	4.6
3,855	247	3.9
4,130	245	3.4
4,405	260	2.9
4,675	271	3.1
4,945	264	4.1
5,215	268	5.1
5,485	274	6.5
5,755	275	7.5
6,025	270	8.4
6,295	266	8.3
6,565	262	9.5
6,835	263	10.3
7,105	267	8.8
7,375	270	8.6
7,645	273	9.2
7,915	269	9.0
8,185	263	9.3
8,455	261	8.6
8,730	267	7.9
9,005	278	8.9
9,285	279	11.0
9,565	276	11.1
9,850	284	10.4
10,135	287	11.3
10,420	286	11.9
10,710	286	12.0
11,005	281	13.0
11,300	277	11.8
11,595	276	12.0
11,890	281	13.0
12,185	282	12.6
12,480	282	13.4
12,775	280	13.5
13,075	277	13.9
13,375	281	13.5
13,675	28[illegible]	14.9
13,975	280	16.0
End: Lost. (Burst?)		
No. 179: 32g r.; 0755; 11/25/40; SC SW; V: 8; −13.7C; 979.4 mb.		
Sfc	103	7.2
108	111	11.3
216	126	8.3
315	178	5.0
414	208	5.4
513	217	5.0
612	226	4.8
End: Lost. (Entered SC?)		
No. 180: 105g w.; 1300; 11/25/40; AC SW; SC NW; V: 9; −18.4C; 980.0 mb.		
Sfc	102	6.3
175	114	7.6
350	154	5.6
510	198	6.5
670	210	7.4
825	207	6.8
980	192	6.4
1,130	187	7.4
1,285	190	7.4
1,415	196	6.5
1,585	202	5.8
1,735	207	4.8
1,880	225	4.7
2,025	238	4.4
2,170	239	4.1
2,310	231	4.8
2,455	218	5.4
2,600	225	4.9
2,740	239	4.6
2,880	238	4.6
3,020	243	4.0
3,300	258	3.9
3,580	269	4.9
3,855	275	5.3
4,130	279	5.4
4,405	286	5.4
4,675	291	5.5
4,945	296	5.6
5,215	299	5.7
5,485	297	6.0
5,755	298	6.1
6,025	300	6.1
6,295	299	6.7
6,565	308	6.7
6,835	314	3.3
7,105	325	6.8
7,375	325	7.5
7,645	314	8.4
7,915	316	7.8
8,185	322	7.4
8,455	304	6.9
8,730	300	6.0
9,005	313	6.2
9,285	315	6.4
9,565	315	6.1
9,850	312	6.9
10,135	306	6.9
10,420	306	5.2
10,710	322	5.4
11,005	324	5.7
11,300	336	4.9
11,595	339	4.6
11,890	359	3.4
12,185	23	5.5
12,480	5	6.2
12,775	356	4.5
13,075	358	4.0
13,375	6	5.0
13,675	357	7.2
13,975	336	8.6
14,275	319	7.9
14,570	299	5.7
14,860	294	3.5
15,145	315	3.0
15,425	332	5.6
15,705	314	7.6
15,985	296	6.4
16,265	304	5.0
16,545	299	5.8
End: Burst		
No. 181: 99g w.; 0829; 11/26/40; AS U; V: 9; −17.6C; 977.1 mb.		
Sfc	122	7.2
175	113	12.3
350	105	9.7
510	107	8.2
670	115	6.9
825	122	5.0
980	126	4.4
1,130	115	4.8
1,285	111	4.0
1,415	125	3.2
1,585	126	3.9
1,735	116	3.8
1,880	107	3.4
2,025	113	3.0
2,170	117	2.2
2,310	110	1.8
2,455	111	1.2
2,600	209	0.5
2,740	256	1.8
2,880	259	2.9
3,020	255	2.5
3,300	270	2.2
3,580	289	3.0
3,855	289	2.5
4,130	310	2.0
4,405	315	3.0
4,675	309	4.8
4,945	306	5.6
5,215	303	6.0
5,485	307	6.5
5,755	300	9.2
6,025	297	8.3
6,295	300	9.2
6,565	301	9.8
6,835	301	10.5
7,105	301	11.2
7,375	300	11.1
7,645	297	11.6
7,915	297	11.2
8,185	296	10.5
8,455	294	10.8
8,730	297	11.2
9,005	298	11.5
9,285	295	11.1
9,565	288	10.9
9,850	290	10.5
10,135	287	10.0
10,420	284	9.5
10,710	285	8.8
11,005	283	8.8
11,300	285	10.3
11,595	284	11.5
11,890	280	11.2
12,185	282	11.4
12,480	281	11.0
12,705	276	10.5
13,075	285	11.0
13,375	289	10.3
13,675	290	10.1
13,975	294	9.3
14,275	297	7.5
14,570	295	8.5
14,860	301	6.0
15,145	334	4.0
15,425	325	6.0
15,705	316	7.2
End: Lost. (Distance?)		
No. 182: 105 g w.; 2250; 11/28/40; CU ENE; V: 7; −13.2C; 977.2 mb.		
Sfc	110	6.7
175	72	4.5
350	5	4.3
510	8	5.4
670	12	5.9
825	19	6.6
980	27	7.0
1,130	37	6.6
1,285	36	5.7
1,415	34	5.3
1,585	38	6.2
1,735	44	6.6
1,880	44	6.9
2,025	46	6.1
2,170	49	5.9
2,310	45	6.6
2,455	37	7.3
2,600	23	7.8
2,740	15	8.2
2,880	6	8.5
3,020	6	9.3
3,300	6	11.0
3,580	5	13.0
3,855	6	15.4
4,130	6	17.6
4,405	4	19.0
4,675	3	19.5
4,945	2	20.0
5,215	2	20.5
5,485	360	21.0
5,755	359	21.9
6,025	359	21.6
6,295	359	21.4
6,565	359	20.0
6,835	357	17.6
7,105	352	16.5
7,375	354	15.2
7,645	354	14.8
7,915	347	13.4
8,185	346	13.2
8,455	343	11.8
8,730	345	10.4
9,005	345	10.5
9,285	338	9.6
End: Obscured by lower FC. Run made during lull in wind and snow storm		
No. 183: 32g b.; 0949; 11/29/40; SC WNW; V: 6; −11.0C; 979.8 mb.		
Sfc	257	5.4
108	264	9.5
216	276	10.6
315	292	10.7
414	304	10.8
513	308	10.4
612	309	10.2
End: Entered SC		
No. 184: 32g b.; 1113; 11/30/40; SC WSW; V: 8; −10.1C; 989.0 mb.		
Sfc	304	1.3
108	306	6.5
216	306	7.1
315	298	5.4
414	264	4.5
513	247	6.1
612	240	6.8
706	239	6.5
801	236	5.9
895	233	5.1
990	232	4.8
1,080	233	4.5
1,170	234	4.4
End: Entered SC		
No. 185: 105 g r.; 1535; 11/30/40; AC NW; V: 8; −10.8C; 989.6 mb.		
Sfc	52	1.3
175	3	4.8
350	347	2.4
510	355	2.4
670	3	3.2
825	4	2.2
980	360	1.0
1,130	307	1.2
1,285	267	2.4
1,415	259	3.8
1,585	265	4.2
1,735	272	5.4
1,880	271	6.4
2,025	272	6.5
*2,170	277	7.0
*2,310	276	7.0
2,455	273	8.8
2,600	271	10.6
*Interpolated.		
End: Obscured by lower AC		
No. 186: 29g r.; 0759; 12/1/40.; CI U; AC ENE; V: 8; −11.0C; 991.3 mb.		
Sfc	108	6.7
108	87	12.7
216	78	12.4
315	74	9.5
414	68	7.9
513	63	7.2
612	55	5.9
706	37	4.5
801	21	4.0
895	22	3.9
990	34	3.7
1,080	41	3.9
1,170	44	4.0
1,260	44	3.4
1,350	49	3.0
1,440	58	3.2
1,530	62	3.4
1,620	74	2.4
1,710	111	1.0
1,800	88	0.7
1,890	63	0.9
1,965	61	1.0
End: Entered AC		
No. 187: 105g r.; 0805; 12/5/40.; ST ENE.; V: 8; −3.8 C; 982.3 mb.		
Sfc	119	5.4
175	101	9.1
350	81	8.9
510	87	9.0
670	90	9.9
825	77	11.0
980	70	11.6
End: Entered ST 664m. (3:17)		

TABLE 8.—*Individual pilot balloon ascents, Little America III*—Continued

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 188: 34g r.; 0905; 12/6/40; AC, ST ENE; V: 7; −9.6 C; 985.3 mb.		
Sfc	121	6.7
108	98	10.5
216	79	9.4
315	75	8.3
414	75	7.9
513	73	8.3
612	71	8.9
706	69	9.7
801	64	9.5
895	60	10.4
990	59	10.4
1,080	61	8.3
1,170	69	7.2
1,260	78	6.7
1,350	80	7.0
1,440	77	7.2
1,530	72	7.0
1,620	70	8.0
1,710	72	9.0
1,800	70	9.0
1,890	69	9.0
1,980	72	9.9
2,070	71	11.4
2,160	72	11.1
2,250	74	9.6
End: Entered AC 2,220m. (11:50)		
No. 189: 105g r.; 0830; 12/7/40; CI N; AC ESE; V: 7; −2.1C; 991.3 mb.		
Sfc	173	1.8
175	155	3.6
350	131	3.8
510	138	4.7
670	145	5.0
825	135	4.4
980	129	2.9
1,130	118	2.4
1,285	106	2.4
1,415	104	2.1
1,585	136	2.5
1,735	148	3.5
1,880	148	4.4
2,025	149	5.8
2,170	143	6.6
2,310	131	5.6
2,455	107	3.9
2,600	74	3.1
2,740	48	2.8
2,880	32	2.9
3,020	26	3.1
3,300	22	3.0
3,580	11	3.1
3,855	356	3.0
4,130	350	2.2
4,405	7	2.1
4,675	15	2.8
4,945	18	3.0
5,215	15	3.0
5,485	8	3.5
5,755	2	4.0
6,025	353	4.3
6,295	347	4.7
6,565	346	4.9
6,835	352	5.1
7,105	352	5.7
7,375	351	6.3
7,645	352	6.5
7,915	355	6.6
8,185	355	7.4
8,455	353	7.4
8,730	355	6.9
9,005	359	6.4
9,285	3	5.9
9,565	4	6.4
9,850	5	6.5
10,135	4	6.4
10,420	357	4.9
10,710	12	4.3
11,005	12	4.9
11,300	7	4.9
11,595	17	5.5
11,890	13	3.9
12,185	323	1.5
12,480	14	2.8
12,775	22	4.9
13,075	9	3.1
13,375	3	1.3
13,675	53	3.3
13,975	54	5.9
14,275	31	3.5
14,570	37	1.4
14,860	52	1.6
15,145	27	3.0
15,425	30	5.5
15,705	5	5.0
15,985	352	2.7
16,265	16	4.0
16,545	13	6.8
End: Burst (?)		
No. 190: 105g w., 0725; 12/8/40; AC NW; V: 9; −10.3C; 990.7 mb.		
Sfc	143	2.7
175	142	4.4
350	148	4.3
510	151	4.4
670	150	4.4
825	151	4.3
980	151	4.6
1,130	139	4.7
1,285	135	5.0
1,415	134	5.4
1,585	132	5.2
1,735	145	5.4
1,880	163	5.1
2,025	167	3.2
2,170	168	1.0
2,310	272	1.1
2,455	277	1.9
2,740	288	2.3
3,020	302	2.0
3,300	326	1.8
3,580	360	1.9
3,855	20	1.7
4,130	39	1.2
4,405	59	0.7
4,675	22	1.0
4,945	360	1.2
5,215	5	1.1
5,485	24	1.1
5,755	24	1.4
6,025	22	1.9
6,295	23	1.9
6,565	360	2.0
6,835	343	2.1
7,105	324	2.5
7,375	312	3.8
7,645	312	5.0
7,915	310	6.0
8,185	317	6.9
8,455	319	7.8
8,730	315	7.0
9,005	315	6.2
9,285	320	6.1
9,565	320	6.0
9,850	318	5.9
10,135	316	5.5
10,420	305	4.5
10,710	315	3.3
11,005	320	3.8
11,300	305	4.5
11,595	289	3.5
11,890	302	3.0
12,185	321	3.4
12,480	327	2.5
12,775	312	2.5
13,075	292	4.0
13,375	271	2.3
13,675	86	1.0
13,975	24	2.4
14,275	325	3.0
14,570	288	4.3
14,860	275	3.2
15,145	257	0.5
15,425	51	1.4
15,705	37	3.0
15,985	11	3.5
16,265	330	2.8
16,545	275	2.4
16,825	266	1.3
End: Burst (61:15) after apparently "floating" for two minutes		
No. 191: 105g w. 0921; 12/9/40; CI NNW; V: 9; −10.7C; 989.4 mb.		
Sfc	198	3.3
175	212	5.5
350	234	2.1
510	225	1.5
670	240	2.8
825	247	3.8
980	264	3.4
1,130	290	4.5
1,285	294	6.3
1,415	296	7.4
1,585	301	7.8
1,735	306	7.5
1,880	304	7.0
2,025	301	6.2
2,170	304	5.9
2,310	309	6.9
2,455	310	7.4
2,600	305	7.5
2,740	310	7.4
2,880	314	6.6
3,020	313	6.1
*3,300	311	5.8
3,580	315	6.0
3,855	320	6.5
4,130	324	5.5
4,405	315	7.8
4,675	322	9.5
4,945	325	11.4
5,215	320	13.7
5,485	320	13.8
5,755	323	10.3
6,025	320	11.8
6,295	317	15.0
6,565	316	16.0
6,835	318	18.0
7,105	318	19.0
7,375	316	18.0
7,645	316	18.4
7,915	317	20.3
8,185	318	21.8
8,455	317	22.8
8,730	312	22.0
9,005	310	17.8
9,285	312	16.0
9,565	312	13.8
9,850	312	11.5
10,135	310	10.2
10,420	302	5.8
10,710	310	8.0
11,005	309	9.0
11,300	297	6.0
11,595	296	6.8
11,890	300	6.0
12,185	301	4.6
12,480	314	5.0
12,775	322	8.0
13,075	323	7.6
13,375	321	5.0
13,675	308	5.0
13,975	319	5.0
14,275	334	8.0
14,570	332	5.8
14,860	333	5.5
*Interpolated.		
End: Burst (62:00) but due to apparent floating last 10 minutes not used.		
No. 192: 104g r.; 0933; 12/10/40; CS NW; AS NNW; V: 9; −14.2C; 990.2 mb.		
Sfc	204	2.2
175	203	3.4
350	203	5.2
510	210	4.8
670	219	4.7
825	228	5.0
980	235	5.0
1,130	248	4.5
1,285	266	4.0
1,415	291	4.0
1,585	310	4.6
1,735	310	4.7
1,880	305	5.0
2,025	310	5.4
2,170	313	5.5
2,310	319	5.5
2,455	327	5.5
2,600	334	6.0
2,740	336	6.4
2,880	334	6.1
3,020	334	6.8
3,300	327	7.5
3,580	322	7.7
3,855	323	8.0
4,130	322	8.0
4,405	325	8.0
4,675	325	9.0
4,945	324	10.1
5,215	327	11.5
5,485	328	12.5
5,755	328	11.5
6,025	324	14.6
6,295	327	12.5
6,565	327	12.6
6,835	327	15.4
7,105	327	16.2
7,375	326	17.6
7,645	327	19.4
7,915	327	20.5
8,185	325	21.0
8,455	324	22.0
8,730	324	22.5
9,005	324	17.5
9,285	325	17.1
9,565	323	15.5
9,850	316	12.0
10,135	319	12.9
10,420	319	11.6
10,710	311	9.8
11,005	300	7.5
11,300	301	6.0
11,595	314	9.3
11,890	311	7.5
12,185	303	5.2
12,480	297	5.5
12,775	293	5.4
13,075	298	5.5
13,375	287	5.5
13,675	296	6.3
13,975	303	6.5
14,275	273	5.4
14,570	278	5.0
14,860	291	3.2
15,145	281	2.2
15,425	299	2.6
15,705	338	1.0
15,985	337	2.6
16,225	326	3.6
End: Burst 16,295m. (57:10)		
No. 193: 105g r.; 0920; 12/11/40; CS N, AS U; V: 7; −9.8C; 991.5 mb.		
Sfc	101	4.9
175	95	6.2
350	100	5.3
510	110	5.2
670	120	5.5
825	122	5.6
980	112	5.0
1,130	107	4.7
1,285	110	4.4
1,415	103	4.3
Data missing.		
1,880	33	5.2
*2,025	29	3.9
2,170	20	3.7
2,310	3	4.2
2,455	354	4.3
2,600	351	6.0
2,740	351	7.4
2,880	356	7.4
3,020	358	7.2
*Interpolated.		
End: Entered CI		
No. 194: 104g w.; 0920; 12/12/40; AC WSW; SC SSW; V: 9; −8.3C; 998.2 mb.		
Sfc	192	2.2
175	181	2.8
350	187	3.1
510	208	2.9
670	230	2.2
825	226	2.3
980	221	2.1
1,130	209	1.9
1,285	197	2.2
1,415	201	2.8
1,585	218	3.0
1,735	228	2.2
1,880	223	3.0
2,025	223	4.4
2,170	230	4.5
2,310	240	3.9
2,455	250	3.6
2,600	249	3.2
2,740	239	3.9
2,880	239	5.7
3,020	235	6.7
3,300	241	9.2
3,580	250	11.9
3,855	253	13.7
4,130	255	15.6
4,405	258	17.8
4,675	259	19.8
4,945	259	20.3
5,215	260	22.3
5,485	258	23.1
5,755	258	23.6
6,025	257	26.2
6,295	257	27.4
6,565	258	28.6
6,835	258	29.7
7,105	260	30.1
7,375	259	29.6
7,645	257	35.1
7,915	258	36.0
8,185	259	38.9
8,455	259	39.2
8,730	260	43.1
9,005	258	45.9
9,285	255	41.3
End: Lost behind AC		
No. 195: 35g b.; 0917; 12/13/40; ST S; V: 8; −13.3C; 997.1 mb.		
Sfc	198	3.6
108	191	1.2
180	192	1.2
End: Entered ST		
No. 196: 104g w.; 1044; 12/13/40; CI W; ST SSW; V: 9; −13.4C; 997.1 mb.		
Sfc	198	0.9
175	301	2.7
350	206	3.7
510	208	4.2
670	208	4.2
825	202	4.3
980	201	4.4
1,130	194	4.3
1,285	189	4.1
1,415	185	4.1
1,585	180	4.1
1,735	187	3.6
1,880	188	3.2
2,025	189	3.1
2,170	196	3.2
2,310	196	3.7
2,455	194	4.8
2,600	199	5.0
2,740	205	5.2
2,880	203	5.1
3,020	199	5.2
3,300	193	5.8
3,580	197	5.3
3,855	210	4.7
4,130	224	4.7
4,405	234	5.8
4,675	248	7.2
4,945	246	9.8
5,215	245	9.5
5,485	251	8.1
5,755	241	12.7
6,025	243	13.8
6,295	253	11.6
6,565	257	12.9
6,835	261	15.2
7,105	260	18.0
7,375	257	19.1
7,645	257	20.3
7,915	261	22.4
8,185	265	22.8

TABLE 8.—*Individual pilot balloon ascents, Little America III*—Continued

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 196—Continued		
8,455	266	21.9
8,730	263	21.4
9,005	258	26.5
9,285	263	23.4
9,565	266	26.5
9,850	263	26.9
10,135	256	23.5
10,420	257	20.7
10,710	256	19.5
11,005	258	16.9
11,300	255	16.0
11,595	249	16.0
11,890	249	13.8
12,185	249	12.5
12,480	251	10.9
12,775	260	12.4
13,075	256	14.0
13,375	247	13.0
13,675	247	15.7
13,975	246	12.6
14,275	246	9.6
14,570	246	12.5
14,860	235	9.4
15,145	235	5.6
15,425	247	6.5
15,705	247	6.6
15,985	246	6.6
16,265	246	6.4

End: Burst (62:15) but due to apparent floating, last five minutes not used

No. 197: 104g w.; 0923; 12/14/40; AC 8; V: 9; −12.2C; 994.0 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	126	3.6
175	122	4.7
350	120	5.7
510	120	4.0
670	125	3.2
825	117	3.4
980	110	4.1
1,130	107	4.0
1,285	111	3.9
1,415	120	4.0
1,585	122	3.2
1,735	129	2.0
1,880	149	1.6
2,025	157	1.7
2,170	183	1.6
2,310	194	1.8
2,455	194	1.5
2,600	211	1.1
2,740	226	1.1
2,880	229	1.3
3,020	254	1.4
3,300	259	2.5
3,580	259	3.9
3,855	256	5.6
4,130	257	7.7
4,405	258	10.4
4,675	257	11.6
4,945	255	12.3
5,215	256	12.6
5,485	254	11.8
5,755	253	12.4
6,025	255	13.3
6,295	258	14.2
6,565	259	16.0
6,835	261	17.1
7,105	263	17.4
7,375	265	18.4
7,645	266	20.5
7,915	267	23.4
8,185	269	26.5
8,455	268	30.0
8,730	268	31.6
9,005	270	28.9
9,285	268	26.4
9,565	265	23.8
9,850	263	20.5
10,135	262	17.6
10,420	262	14.9
10,710	261	15.7
11,005	264	13.2
11,300	265	11.7
11,595	258	13.3
11,890	248	12.4
12,185	242	13.0
12,480	244	11.5
12,775	253	8.2
13,075	260	9.5
13,375	260	12.1

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 197—Continued		
13,675	255	12.1
13,975	252	12.6
14,275	248	11.0
14,570	242	10.7
14,860	239	9.1
15,145	234	7.5
15,425	240	8.2
15,705	243	6.7
15,985	236	5.8
16,265	233	4.9
16,545	227	3.6
16,825	248	3.5
17,105	262	4.5
17,385	257	4.6
17,670	257	2.9
17,950	257	2.5
18,235	257	2.6
18,375	257	2.0

End: Burst

No. 198: 104g r.; 0903; 12/15/40; CI NW; AC 8; V: 8; −10.1C; 995.6 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	110	2.2
175	116	9.1
350	114	5.2
510	122	3.1
670	137	3.1
825	172	2.6
980	184	2.5
1,130	162	2.2
1,285	159	1.8

End: Entered AC 833 m. (4:10)

No. 199: 34g r.; 0919; 12/16/40; CI W; AC SW; V: 8; −8.9C; 996.3 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	171	2.2
108	155	5.7
216	157	4.8
315	191	3.3
414	242	3.9
513	229	5.5
612	217	6.1
706	221	5.7
801	221	5.7
895	227	6.2
990	230	6.5
1,080	226	6.1
1,170	221	6.4
1,260	216	6.2
1,350	207	5.3
1,440	192	4.9
1,530	185	5.2
1,620	186	5.7
1,710	180	5.9
1,800	179	5.7
1,890	179	5.6
2,070	181	5.0
2,250	185	4.7
2,430	189	5.2
2,610	193	5.9
2,790	194	5.6
2,970	201	3.6
3,150	211	2.9
3,330	201	4.2
3,510	193	5.7
3,690	201	6.1
3,870	218	5.2
4,050	228	4.2
4,230	231	4.0
4,410	239	4.2
4,590	247	4.2
4,770	250	3.8
4,950	241	3.5
5,130	205	4.2
5,310	187	5.5
5,490	188	5.3
5,670	192	3.5
5,850	212	2.0
6,030	229	2.7
6,210	238	2.4
6,390	237	2.3
6,570	253	3.1
6,750	271	4.1
6,930	273	4.2
7,110	281	4.2
7,290	273	4.2
7,470	262	4.2

End: Obscured by lower clouds

No. 200: 34g r.; 0923; 12/17/40; CI NE; AS NE; V: 9; −11.1C; 995.8 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	187	2.7
108	160	2.0
216	170	1.2
315	174	0.6
414	189	4.7
513	182	7.4
612	178	8.7
706	176	10.1
801	177	11.3
895	181	11.8
990	183	11.3
1,080	185	11.2
1,170	186	10.9
1,260	188	10.3
1,350	188	10.0
1,440	191	10.2
1,530	194	9.7
1,620	195	9.1
1,710	196	8.9
1,800	198	8.7
1,890	197	8.0
2,070	190	6.7
2,250	182	5.9
2,430	183	6.2
2,610	184	5.7
2,790	176	4.5
2,970	187	3.1
3,150	243	1.9
3,330	263	2.0
3,510	257	2.3
3,690	249	2.6
3,870	242	2.5
4,050	224	2.5
4,230	205	2.6
4,410	226	1.3
4,590	284	2.0
4,770	286	2.6
4,950	291	2.0
5,130	3	1.7
5,310	30	3.8
5,490	30	4.5
5,670	25	4.8
5,850	20	5.5
6,030	23	6.1
6,210	28	6.3
6,390	29	6.7
6,570	30	7.0
6,750	29	7.3
6,930	24	7.1
7,110	12	5.6
7,290	1	3.6
7,470	339	3.2
7,650	337	4.1
7,830	345	4.6
8,010	355	4.6
8,190	353	3.7
8,370	340	3.2
8,550	323	3.3
8,730	303	4.2
8,910	282	5.0
9,090	272	5.9
9,270	270	6.6
9,450	268	6.1
9,630	261	6.2
9,735	254	7.0

End: Burst

No. 201: 105g w.; 0907; 12/18/40; CI SW; V: 9; −10.1 C; 1001.2 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	197	2.7
175	186	6.8
350	179	7.4
510	177	8.0
670	179	8.9
825	182	9.2
980	185	8.9
1,130	187	8.8
1,285	188	8.2
1,415	191	8.9
1,585	197	9.8
1,735	203	9.2
1,880	207	9.0
2,025	209	8.9
2,170	211	8.8
2,310	214	8.6
2,455	216	8.3
2,600	214	7.9
2,740	214	7.2
2,880	220	7.2

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 201—Continued		
3,020	221	6.5
3,300	217	5.4
3,580	227	4.9
3,855	248	5.1
4,130	254	4.8
4,405	256	4.6
4,675	256	4.9
4,945	252	6.1
5,215	242	8.3
5,485	239	10.6
5,755	239	12.0
6,025	237	13.5
6,295	237	14.5
6,565	235	17.0
6,835	232	22.1
7,105	230	26.5
7,375	229	27.5
7,645	229	28.6
7,915	231	29.5
8,185	232	27.8
8,455	234	26.0
8,730	235	25.1
9,005	232	22.2
9,285	233	20.0
9,565	232	19.3
9,850	229	16.6
10,135	229	14.5
10,420	229	12.7
10,710	231	12.4
11,005	235	15.3
11,300	237	15.8
11,595	237	14.3
11,890	237	14.0
12,185	229	10.6
12,480	220	9.0
12,775	226	10.9
13,075	234	10.9
13,375	229	9.9
13,675	217	10.3

End: Burst

No. 202: 34g b.; 0915; 12/19/40; AS W; V: 8; −8.8 C; 1002.6 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	40	2.7
108	13	5.5
216	360	5.6
315	351	5.4
414	342	5.3
513	330	5.7
612	320	6.2
*706	311	6.5
801	300	4.6
895	295	3.1
990	308	3.2
1,080	306	2.9
1,170	306	2.3
1,260	316	2.1
1,350	299	2.9
1,440	282	3.3
1,530	272	4.2
1,620	267	6.1
‡1,710	261	7.1
1,800	264	7.4
1,890	272	7.7
1,980	273	7.5

*Behind radio pole.
‡Cloud shred.

End: Entered AS 1,905 m. (10:05)

No. 203: 34g b.; 0911; 12/20/40; SC NE; V: 6; −5.2C; 997.3 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	74	5.4
108	59	8.5
216	53	8.1
315	44	5.9
414	34	4.9

End: Entered SC 441m. (2:07). Light snow

No. 204: 36g b.; 1012; 12/22/40; NS SE; V: 7; −4.7C; 996.4 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	205	3.6
108	139	3.8
216	118	5.8
315	115	6.2
414	122	5.9
515	133	4.9
612	143	4.0

End: Entered NS 546m. (2:40).

No. 205: 105g r.; 0949; 12/23/40; CI WSW; AS WSW; V: 9; −12.6C; 997.6 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	186	3.1
175	194	7.8
350	205	7.5
510	214	7.3
670	219	7.4
825	232	9.4
980	236	12.4
1,130	237	14.0
1,285	237	14.8
1,415	236	14.9
1,585	234	14.5
1,735	234	12.2
1,880	236	9.4
2,025	245	7.3
2,170	252	6.5
2,310	244	6.2
2,455	230	7.0
2,600	226	7.6
2,740	228	5.8
2,880	231	4.8
3,020	233	4.5
3,300	241	3.9
3,580	246	4.3
3,855	243	5.2
4,130	249	5.5
4,405	269	5.3
4,675	277	5.8
4,945	269	6.6
5,215	269	7.0
5,485	274	7.3
5,755	277	7.4
6,025	275	7.6
6,295	274	8.1
6,565	277	7.6
6,835	283	6.9
7,105	293	5.6
7,375	290	5.7
7,645	285	6.5
7,915	283	6.7
8,185	279	7.4
8,455	279	7.5
8,730	280	8.0
9,005	281	9.0
9,285	285	9.5
9,565	285	9.7
9,850	282	10.9
10,135	279	10.8
10,420	283	9.5
10,710	287	9.5
11,005	284	9.1
11,300	286	9.0
11,595	291	9.5
11,890	290	9.7
12,185	290	9.5
12,480	291	8.3
12,775	277	5.7
13,075	264	5.0
13,375	281	6.2
13,675	286	5.9
13,975	301	4.0
14,275	296	4.5
14,570	280	4.4
14,860	275	4.3
15,145	270	4.5
15,425	253	3.5
15,705	233	3.2

End: Burst (58:10) but last 3 minutes not used

No. 206: 34g b.; 0919; 12/24/40; ST N; V37; −5.0C; 1000.2 mb.

Height (meters) m.s.l.	Direction N=360°	Speed m/s
Sfc	97	2.2
108	78	2.9
216	33	1.6
315	359	1.9
414	359	2.3
513	358	2.4

End: Entered ST 432 m. (2:05)

TABLE 8.—*Individual pilot balloon ascents, Little America III*—Continued

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 207: 32g r.; 0915; 12/25/40; AC NNE*; V: 8; −4.5C; 1003.8 mb.		
Sfc	52	3.1
108	41	6.2
216	27	5.6
315	18	4.9
414	19	4.8
513	24	5.3
612	24	6.0
706	19	6.3
801	16	7.2
895	12	8.5
990	13	10.5
1,080	20	11.8
1,170	26	11.3
1,260	33	10.6
1,350	37	10.7
1,440	34	10.9
1,530	30	10.5
1,620	29	9.7
1,710	29	9.7
*8/10 AC from NE 1/10 lower FC moving in from NW.		
End: Entered AC 1,695 m. (8:50)		
No. 208: 34g b.; 0934; 12/27/40; CU N; NS NE; V: 7; +0.3C; 979.8 mb.		
Sfc	40	2.2
108	34	4.4
216	27	4.6
315	21	4.4
414	15	4.4
513	17	3.6
612	23	2.4
706	29	2.0
801	32	2.7
895	30	3.7
990	30	3.6
1,080	33	3.4
End: Entered NS 1,005 m. (5:05)		
No. 209: 34g r.; 0918; 12/29/40; NS SE; ST SE; V: 7; −1.3C; 977.4 mb.		
Sfc	176	4.5
108	160	5.0
216	153	5.7
315	142	5.7
414	133	5.6
*513	133	5.8
*Reappeared briefly in hole between FS.		
End: Entered FS 447 m. (2:10). Light snow during observation		
No. 210: 31g b.; 0925; 12/31/40; ST NNW; V: 6; −0.7C; 983.9 mb.		
Sfc	339	0.9
108	336	3.7
216	330	4.3
315	327	5.2
414	332	6.3
513	335	7.0
End: Entered ST 546 m. (2:40)		
No. 211: 105g r.; 0828; 1/3/41; CI NE; AS E; V: 8; −8.7C; 988.6 mb.		
Sfc	105	7.6
175	82	8.2
350	51	5.2
510	48	4.2
670	59	5.5
825	65	5.6
980	73	4.6
1,130	82	4.4
1,285	85	5.0
1,415	84	6.2
1,585	81	7.4
1,735	79	8.7
1,880	81	9.1
2,025	86	8.5
2,170	88	8.8
2,310	87	8.2
No. 211—Continued		
2,455	98	7.0
2,600	106	7.3
2,740	100	7.7
2,880	93	6.5
3,020	90	5.3
3,300	86	3.4
3,580	105	3.3
3,855	97	3.4
4,130	89	3.3
4,405	94	3.1
4,675	89	3.1
4,945	72	2.4
5,215	56	2.1
5,485	46	2.3
5,755	31	3.0
6,025	24	3.0
6,295	11	3.1
6,565	353	3.2
6,835	343	2.7
7,105	343	3.3
7,375	321	5.1
7,645	317	7.7
7,915	320	9.5
8,185	314	10.2
8,455	315	9.8
8,730	325	8.3
9,005	334	5.8
9,285	342	4.2
9,565	346	4.2
9,850	343	4.0
10,135	335	3.2
10,420	325	3.1
10,710	313	2.5
11,005	298	1.7
11,300	316	0.7
11,595	342	0.6
11,890	273	1.4
12,185	246	2.1
12,480	276	1.6
12,775	319	2.3
13,075	284	1.2
13,375	163	1.3
13,675	132	1.3
13,975	96	0.8
14,275	84	0.3
End: Burst?		
No. 212: 34g r.; 0920; 1/4/41; NS SE; V: 7; −2.6C; 987.0 mb.		
Sfc	165	3.1
108	157	6.5
216	153	6.6
315	151	5.9
414	151	5.2
513	147	4.1
570	143	3.6
End: Entered ST 530 m. (2:35)		
No. 213: 33g r.; 1049; 1/5/41; NS SE; V: 6; −6.8C; 983.7 mb.		
Sfc	140	3.1
108	125	3.6
216	129	3.6
315	135	3.1
364	132	2.6
End: Entered NS 308 m. (1:28)		
No. 214: 36g b.; 1030; 1/6/41; NS SE; V: 7; −4.6C; 985.2 mb.		
Sfc	232	2.2
108	189	2.3
216	145	3.2
315	142	3.8
414	140	3.7
513	135	3.4
612	129	3.0
691	121	2.6
End: Entered ST		
No. 215: 34g b.; 0906; 1/7/41; NS S; V: 8; −4.3C; 982.8 mb.		
Sfc	155	2.2
108	128	3.9
216	130	4.2
315	139	4.1
414	144	3.9
513	146	3.7
612	154	3.5
706	160	3.3
801	163	3.0
895	172	2.2
990	189	1.8
1,080	197	2.1
1,170	198	2.5
1,230	198	2.4
End: Entered NS 1,155 m. (5:55)		
No. 216: 104g w.; 1628; 1/8/41; FC SW; V: 8; −9.9C; 970.0 mb.		
Sfc	233	4.9
175	239	8.9
350	244	9.8
510	248	9.0
670	248	8.2
825	249	9.4
980	249	10.0
1,130	239	8.7
1,285	227	8.2
1,415	222	8.1
1,585	217	6.9
1,735	217	6.7
1,880	215	8.3
2,025	210	8.6
2,170	208	8.4
2,310	206	8.7
2,455	204	8.5
2,600	203	8.3
2,740	199	8.4
2,880	198	8.4
3,020	201	6.1
3,300	197	7.0
3,580	201	7.0
3,855	217	7.3
4,130	218	8.4
4,405	218	8.7
4,675	219	8.4
4,945	218	7.7
5,215	216	7.6
5,485	219	7.9
5,755	223	7.6
6,025	231	7.8
6,295	237	8.9
6,565	239	9.7
6,835	240	9.8
7,105	242	9.4
7,375	249	8.8
7,645	257	8.7
7,915	269	9.2
8,185	280	8.8
8,455	279	7.5
8,730	272	5.5
9,005	267	2.2
9,285	254	2.4
9,565	276	2.0
9,850	266	1.0
10,135	Calm	
10,420	Calm	
10,710	Calm	
11,005	Calm	
11,300	Calm	
11,595	Calm	
11,890	Calm	
12,185	Calm	
12,480	Calm	
12,775	Calm	
13,075	Calm	
End: Obscured by lower FC (6:30 to 9:00 and after 42:00). Sky cleared for first time in week at 1600, cloudy by 1730; ice crystals		
No. 217: 32g b.; 1211; 1/9/41; NS SSW; V: 7; −9.8C; 966.2 mb.		
Sfc	138	2.7
108	157	3.5
216	180	2.9
315	196	2.0
380	211	1.8
End: Entered ST		
No. 218: 105g w.; 0140; 1/10/41; CU E; V: 8; −8.7C; 969.9 mb.		
Sfc	100	6.3
175	92	7.2
350	76	6.7
510	55	5.2
670	60	2.9
825	60	2.5
980	23	1.8
1,130	300	1.7
1,285	279	2.0
1,415	312	1.2
1,585	342	1.7
1,735	345	2.2
1,880	344	2.1
2,025	3	0.9
2,170	33	1.5
2,310	31	2.0
2,455	32	1.8
2,600	28	1.7
2,740	26	2.2
2,880	27	2.7
3,020	32	2.7
3,300	34	2.9
3,580	34	2.8
3,855	46	3.3
4,130	45	4.0
4,405	42	4.4
4,675	44	4.0
4,945	40	5.5
5,215	36	6.2
5,485	34	7.2
5,755	36	8.5
6,025	39	10.2
6,295	46	12.0
6,565	47	13.3
6,835	49	14.4
7,105	51	15.1
7,375	51	13.5
7,645	53	11.2
7,915	53	12.0
8,185	53	11.8
8,455	53	10.8
8,730	53	12.0
9,005	55	12.2
9,285	56	11.6
9,565	58	11.7
9,850	58	11.0
10,135	60	9.3
10,420	62	9.2
10,710	61	9.8
11,005	61	10.1
11,300	63	9.0
11,595	64	7.3
11,890	63	6.7
12,185	71	5.6
12,480	79	5.6
12,775	73	7.2
13,075	77	6.8
13,375	65	7.2
13,675	51	7.4
13,975	46	6.8
14,275	46	5.5
14,570	44	4.5
14,860	43	4.0
15,145	46	3.0
15,425	46	1.7
15,705	65	0.7
15,985	79	0.6
16,265	123	1.2
16,545	127	1.7
16,825	123	1.6
17,105	137	1.4
End: Burst (60:05)		
No. 219: 105g r.; 0336; 1/11/41; CI ENE; SC NE; V: 8; −6.1C; 984.5 mb.		
Sfc	108	7.2
175	96	7.0
350	68	3.2
510	60	2.4
670	27	1.9
825	38	1.6
980	60	1.7
1,130	63	2.5
1,285	69	2.8
1,415	63	3.4
1,585	61	5.5
1,735	63	7.0
1,880	64	7.1
2,025	65	6.8
No. 219—Continued		
2,170	70	7.4
2,310	71	7.6
2,455	67	7.9
2,600	63	8.4
2,740	54	6.8
2,880	58	8.3
3,020	62	8.5
3,300	61	8.9
3,580	59	9.0
3,855	60	8.6
4,130	63	8.1
4,405	68	8.4
4,675	69	9.0
4,945	66	9.8
5,215	64	10.5
5,485	65	11.3
5,755	66	12.7
6,025	68	12.5
6,295	72	13.6
6,565	71	15.6
6,835	71	17.2
7,105	71	17.4
7,375	70	17.9
7,645	68	18.3
7,915	68	18.7
8,185	67	17.2
8,455	67	15.1
8,730	74	15.0
9,005	77	13.8
9,285	77	11.5
9,565	78	12.5
9,850	77	13.0
10,135	72	11.0
10,420	73	11.0
10,710	81	9.5
11,005	79	8.5
11,300	78	8.5
11,595	86	7.5
11,890	84	8.0
12,185	72	10.0
12,480	66	7.5
12,775	76	4.5
13,075	89	4.5
13,375	87	6.5
13,675	83	6.0
13,975	96	3.0
14,275	110	3.0
14,570	92	5.0
14,860	94	4.5
*15,145	96	3.5
15,425	80	4.0
15,705	105	3.0
15,985	130	3.5
*USS Bear sighted.		
End: Burst (56:10)		
No. 220: 105g r.; 0630; 1/12/41; AC E; V: 8; −4.4C; 997.5 mb.		
Sfc	250	1.3
175	243	6.2
350	242	5.6
510	247	5.6
670	261	6.2
825	259	6.3
980	270	3.8
1,130	7	1.8
1,285	63	2.9
1,415	67	2.7
1,585	73	3.0
1,735	67	3.6
1,880	51	3.0
2,025	48	3.0
2,170	60	2.3
2,310	76	1.7
2,455	42	1.4
2,600	343	1.4
2,740	321	2.1
2,880	309	2.2
3,020	296	1.7
3,300	310	0.7
3,580	337	0.8
3,855	349	1.4
4,130	34	1.3
4,405	78	2.1
4,675	92	2.8
4,945	65	3.8
5,215	55	6.2
5,485	58	7.3
5,755	62	7.9
6,025	68	8.9
6,295	68	9.8

TABLE 8.—*Individual pilot balloon ascents, Little America III*—Continued

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 220—Continued		
6,565	70	13.2
6,835	71	18.3
7,105	72	21.1
7,375	74	22.1
7,645	76	22.7
7,915	82	23.0
8,185	89	23.6
*8,455	75	23.2
8,730	78	23.4
9,005	79	24.2
9,285	81	24.0
9,565	81	20.5
9,850	81	14.5
10,135	77	10.4
10,420	85	7.5
10,710	99	5.1
11,005	76	4.0
11,300	28	3.5
11,595	8	2.3
11,890	Calm	
12,185	181	2.0
12,480	199	2.6
12,775	186	2.0
13,075	36	1.5
13,375	283	1.5
13,675	230	3.6
12,975	200	3.6
14,275	193	3.6
14,570	198	2.3
14,860	146	1.2
15,145	180	1.1
15,425	229	2.6

*Partially obscured by lower clouds.

End: Burst (54:05)

No. 221: 105g w.; 0900; 1/13/41; AC SW; ST W; V: 8-4; −8.6C; 997.0 mb.

Sfc	250	3.6
175	232	5.0
350	197	4.0
510	199	5.0
670	212	6.6
825	211	8.8
980	207	9.2
1,130	206	7.9
1,285	199	6.4
1,415	199	5.4
1,585	208	5.0
1,735	212	4.6
1,880	219	3.9
2,025	222	3.9
2,170	224	3.8
2,310	229	3.3
2,455	223	4.1
2,600	223	5.0
2,740	221	4.9
2,880	217	5.0
3,020	218	5.2
3,300	219	5.1
3,580	219	4.1
3,855	221	3.5
4,130	227	3.8
4,405	225	3.6
4,675	213	2.7
4,945	200	1.9
5,215	206	1.9
5,485	209	2.4
5,755	229	1.7
6,025	261	1.0
6,295	217	0.4
6,565	102	0.8
6,835	101	1.6
7,105	100	1.3
7,375	67	1.8
7,645	74	3.3
7,915	83	4.1

End: Obscured by low ST and fog. Whaleback clouds W of Bay at start of run thickened and approached rapidly, covering sky by 0940

No. 222: 105g r.; 1544; 1/14/41; AC SE; V:8; −9.7C; 986.3 mb.

Sfc	130	7.2
175	129	13.6
350	129	14.2
510	137	11.3
670	162	9.2
825	176	9.5
980	175	9.0
1,130	171	9.1
1,285	167	8.8
1,415	164	7.2
1,585	161	6.6
1,735	165	5.6
1,880	165	7.0
2,025	159	8.4
2,170	159	8.1
2,310	159	7.4
2,455	155	7.0
2,600	156	5.9
2,740	164	6.6
2,880	162	7.1
3,020	162	7.0
3,300	155	6.2
3,580	148	6.0
3,855	147	5.3
4,130	144	5.7
4,405	138	5.4
4,675	140	5.2
4,945	141	5.6
5,215	138	6.0
5,485	141	7.0
5,755	143	8.0
6,025	145	7.8
6,295	145	9.6
6,565	146	10.1
6,835	145	9.9
7,105	144	9.8
7,375	141	11.5
7,645	134	14.2
7,915	127	15.5
8,185	126	16.2
8,455	128	17.5
8,730	128	18.0
9,005	129	17.0
9,285	130	14.2
9,565	129	11.6
9,850	141	9.8
10,135	157	9.0
10,420	173	7.8
10,710	192	6.5
11,005	216	5.5
11,300	217	6.4
11,595	217	5.1
11,890	250	4.2
12,185	252	5.2
12,480	245	6.0
12,775	242	6.3
13,075	235	7.2
13,375	232	7.2
13,675	233	5.3
13,975	256	4.6
14,275	262	5.7
14,570	240	6.8
14,860	230	6.1
15,145	237	4.8
15,425	248	4.6
15,705	262	3.9
15,985	276	3.6

End: Burst (56:10)

No. 223: 105g r.; 1940; 1/15/41; CI SW; V: 8; −10.4C; 975.8 mb.

Sfc	125	7.2
175	130	14.2
350	129	11.2
510	130	6.1
670	135	5.5
825	131	5.5
980	133	5.0
1,130	137	5.3
1,285	126	5.6
1,415	122	4.2
1,585	133	3.3
1,735	132	3.0
1,880	128	2.9
2,025	134	2.6
2,170	145	2.2
2,310	162	2.4
2,455	162	2.7
2,600	150	3.2
2,740	162	3.4
2,880	173	3.1
3,020	184	3.4
3,300	193	5.0
3,580	196	6.1
3,855	198	6.3
4,130	202	6.5
4,405	209	6.3
4,675	216	7.0
4,945	219	8.0
5,215	210	8.8
5,485	213	10.2
5,755	220	10.7
6,025	220	11.4
6,295	217	13.1
6,565	214	14.9
6,835	214	16.9
7,105	214	18.0
7,375	215	18.4
7,645	215	20.0
7,915	216	20.6
8,185	216	22.1
8,455	216	24.2
8,730	216	24.7
9,005	216	26.2
9,285	213	28.4
9,565	210	29.2

End: Obscured by lower CI. (Balloon above cloud after 29:00)

No. 224: 105g w.; 0943; 1/16/41; CI WSW; V: 8; −11.9C; 971.8 mb.

Sfc	131	4.0
175	128	10.1
350	119	9.7
510	107	7.9
670	103	7.3
825	106	7.0
980	105	7.2
1,130	107	7.9
1,285	113	7.4
1,415	114	7.4
1,585	119	7.3
1,735	121	7.3
1,880	123	7.3
2,025	126	7.3
2,170	123	7.7
2,310	120	5.4
2,455	131	3.0
2,600	153	3.2
2,740	160	3.2
2,880	174	2.7
3,020	186	3.7
3,300	200	4.7
3,580	212	4.6
3,855	220	4.9
4,130	223	5.7
4,405	230	6.0
4,675	241	5.2
4,945	250	5.7
5,215	247	6.6
5,485	247	7.2
5,755	250	8.5
6,025	249	8.7
6,295	246	9.8
6,565	246	13.5
6,835	248	16.4
7,105	249	17.9
7,375	250	19.1
7,645	250	20.5
7,915	249	23.2
8,185	248	25.7
8,455	247	27.7
8,730	245	28.9
9,005	244	28.7
9,285	244	27.3
9,565	241	22.0
9,850	240	17.0
10,135	237	13.4
10,420	233	11.1
10,710	235	9.8
11,005	231	9.8
11,300	230	10.0
11,595	227	9.4
11,890	214	9.6
12,185	212	8.6
12,480	212	6.6
12,775	216	7.5
13,075	216	7.4
13,375	213	5.9
13,675	217	6.0
13,975	209	8.0
14,275	195	7.1
14,570	190	5.8
14,860	199	4.7
15,145	215	3.9
15,425	224	3.9
15,705	215	4.0
15,985	212	5.5
16,265	215	6.5
16,545	230	5.5
16,825	236	3.4
17,105	238	2.3
17,385	214	4.0
17,670	211	5.0
17,950	219	4.0
18,235	216	4.0
18,515	214	3.9

End: Burst (65:25?)

No. 225: 105g r.; 1042; 1/17/41; CS SW; AS SW; ST SW; V: 8; −12.2C; 971.0 mb.

Sfc	118	2.7
175	195	5.4
350	220	2.7
510	263	3.2
670	268	3.8

End: Obscured by low FS

No. 226: 29g r.; 1106; 1/19/41 CI U; AC WNW; V: 8; −11.7C; 972.8 mb.

Sfc	180	4.5
108	194	6.8
216	213	5.4
315	240	3.7
414	256	3.6
513	271	3.6
612	285	3.7
706	294	3.8
801	303	4.0
895	308	4.2

End: Entered AC 927 m. (4:40)

No. 227: 34g r.; 1346; 1/20/41; AS W; SC E; V: 7; −9.4C; 972.8 mb.

Sfc	107	4.9
108	90	10.2
216	86	8.5
315	84	6.3
414	80	4.7
513	68	3.4
612	59	2.8
706	60	2.1
801	70	1.9
895	68	2.1
990	68	2.4
1,080	78	2.3
1,170	100	2.4
1,260	125	2.8
1,350	132	2.4
1,440	126	1.5
1,530	123	1.3
1,620	121	1.7
1,710	127	2.0
1,800	126	2.7
1,890	129	2.9
1,980	135	1.4
2,070	Calm	
2,160	251	0.7
2,250	261	1.3
2,340	278	1.3
2,430	283	1.5
2,520	280	1.8

End: Entered AS 2,490 m. (13:20)

No. 228: 102g r.; 1004; 1/22/41; CI U; AC U; CU NE*; V: 8; −9.3C; 979.1 mb.

Sfc	96	3.6
175	54	2.9
350	40	2.7
510	31	2.7
670	20	2.6
825	357	2.0
980	341	1.9
1,130	8	1.8
1,285	30	1.9
1,415	9	1.4
1,585	338	1.1

*Sky chaotic with towering CU to N and E, AS to SE and AC layer covering SW ½ of sky obscuring sun so no direct light on balloon.

End: Darkness (entered AC?)

No. 229: 105g r.; 0848; 1/24/41; CC U; AS ESE; V: 7; −6.9C; 986.0 mb.

Sfc	108	5.4
175	116	7.5
350	127	4.8
510	148	3.5
670	162	4.0
825	153	4.6
980	130	5.2
1,130	128	6.6
1,285	138	7.7
1,415	142	8.1
1,585	139	8.3
1,735	131	8.6
1,880	121	7.6
2,025	114	6.4
2,170	112	6.4
2,310	105	6.2
2,455	99	6.2
2,600	99	6.0

End: Obscured by AS.

No. 230: 104g r.; 2216; 1/25/41; CS U; AS U; ST SSE; V:7; −7.1C; 979.9 mb.

Sfc	174	4.5
175	147	6.8
350	145	8.1
510	132	8.0

End: Entered FS. Clouds moved in while preparations under way

TABLE 8.—*Individual pilot balloon ascents, Little America III*—Continued

Height (meters) m.s.l.	Direction N=360°	Speed m/s
No. 231: 33g r.; 2304; 1/26/41; AC NE; V: 8; −6.3C; 985.2 mb.		
Sfc	98	7.2
108	77	8.6
216	54	8.0
315	49	7.0
414	49	6.8
513	42	6.7
612	37	6.5
706	37	5.7
801	40	4.8
895	38	4.4
990	27	3.8
1,080	21	3.4
1,170	22	4.1
1,260	21	4.6
1,350	17	5.2
1,440	14	6.0
1,530	16	6.2
1,620	26	7.1
1,710	30	7.7
1,800	29	8.0
1,890	30	8.3
1,980	30	8.3
No. 231—Continued		
2,070	32	8.3
2,160	31	8.4
2,250	30	8.8
End: Entered AC 2,235 m. (11:50)		
No. 232: 104g r.; 2058; 1/28/41; AC NE; V: 8; −7.7C; 992.6 mb.		
Sfc	111	4.9
175	64	10.0
350	48	9.7
510	42	9.2
670	43	8.2
825	46	7.2
980	42	6.9
1,130	33	6.8
1,285	30	6.2
1,415	38	6.6
1,585	41	8.4
1,735	38	9.1
End: Entered AC 1,023 m. (5:22)		
No. 233: 105g r.; 0147; 1/29/41; SC NE; V: 9; −7.4C; 994.6 mb.		
Sfc	93	3.4
175	74	9.3
350	49	7.6
510	49	6.1
670	65	5.5
825	70	5.5
980	57	4.4
1,130	37	3.1
1,285	37	3.2
1,415	17	3.2
1,585	3	3.3
1,735	26	4.1
1,880	35	4.3
2,025	39	4.7
2,170	48	5.2
2,310	49	4.8
2,455	58	4.0
2,600	69	3.6
2,740	74	4.0
2,880	73	4.0
3,020	58	3.5
3,300	50	3.2
No. 233—Continued		
3,580	50	3.2
3,855	57	3.1
4,130	58	2.5
4,405	61	2.8
4,675	105	1.2
4,945	148	1.5
5,215	149	1.8
5,485	145	1.8
5,755	158	1.4
6,025	190	1.5
6,295	184	2.0
6,565	161	2.1
6,835	142	2.3
7,105	135	2.2
7,375	144	1.7
7,645	141	1.6
7,915	131	2.2
8,185	104	1.6
8,455	59	1.9
8,730	59	1.8
9,005	26	2.2
9,285	15	2.7
9,565	10	2.9
No. 233—Continued		
9,850	3	2.9
10,135	2	2.8
10,420	2	3.2
10,710	346	3.2
11,005	353	3.4
11,300	18	3.8
11,595	5	3.9
11,890	348	4.8
12,185	346	5.2
12,480	337	6.0
12,775	328	5.1
13,075	322	2.8
13,375	360	2.4
13,675	9	3.2
13,975	355	3.5
14,275	352	3.6
14,570	6	2.9
14,860	13	2.7
15,145	14	2.7
15,425	25	3.1
15,705	26	3.7
End: Burst (59:40) but last four readings not used		

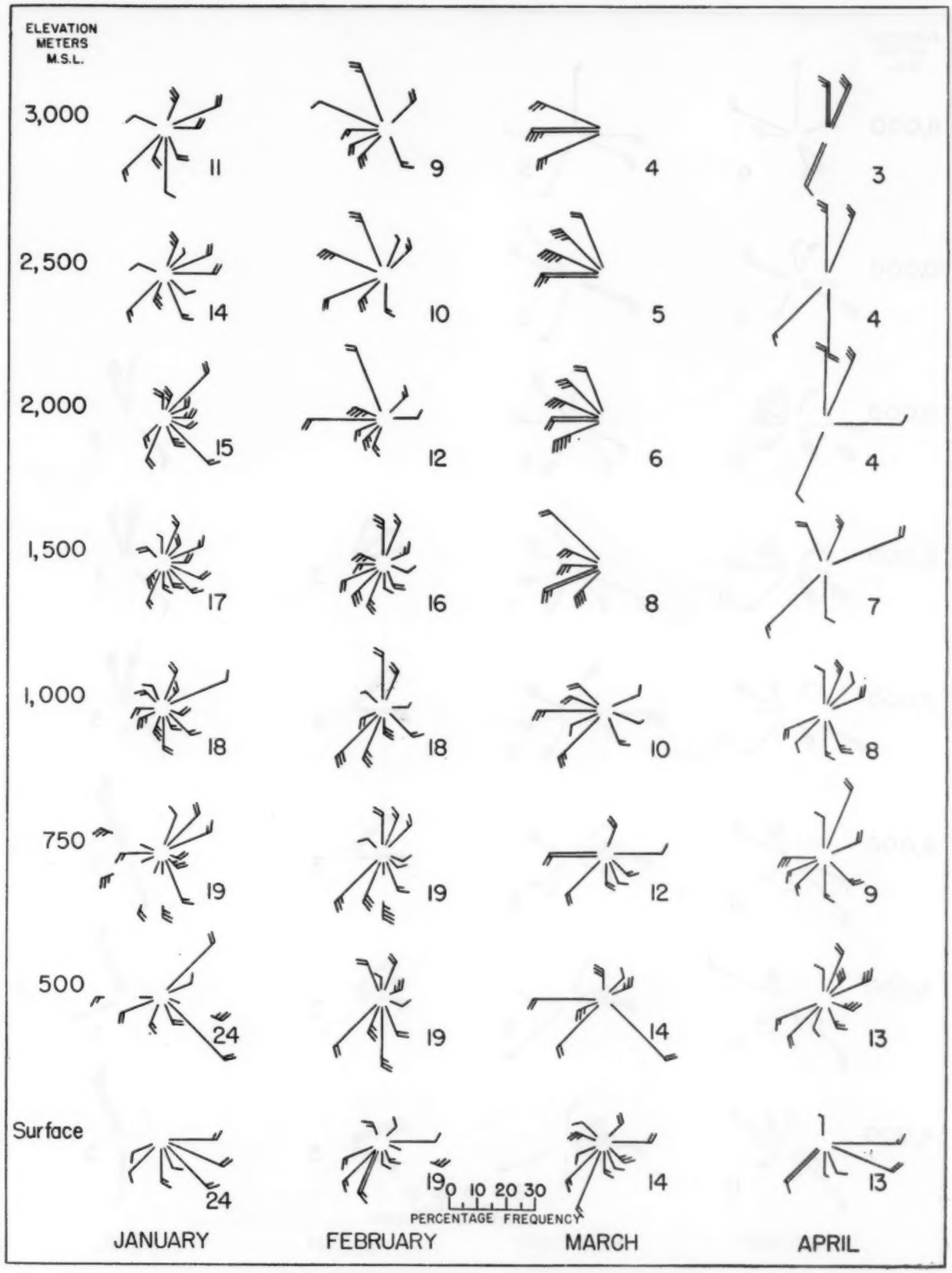

FIGURE 4a.—Wind roses, January to April, surface to 3 kilometers.

792798—49——5

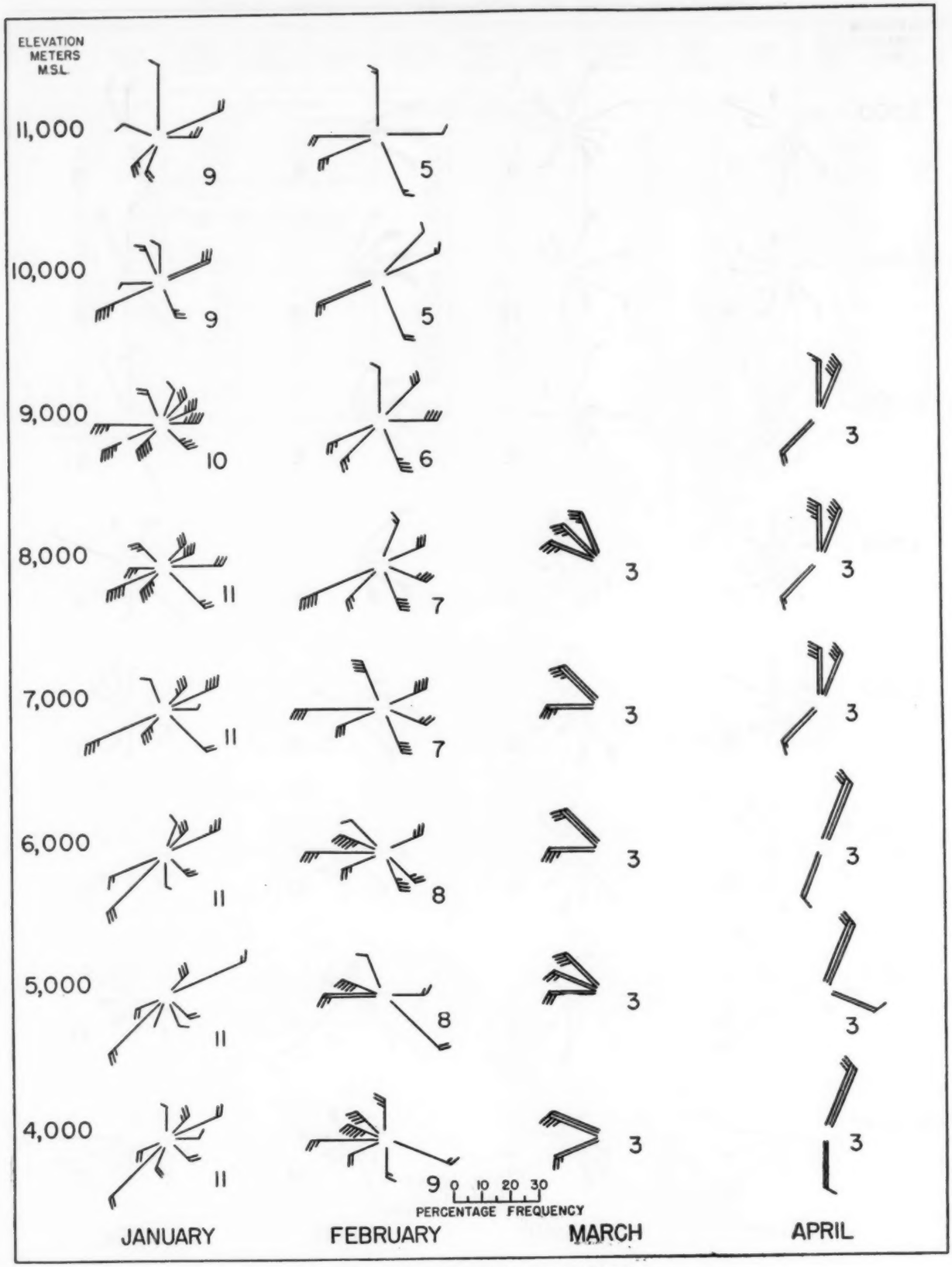

FIGURE 4b.—Wind roses, January to April, 4–11 kilometers.

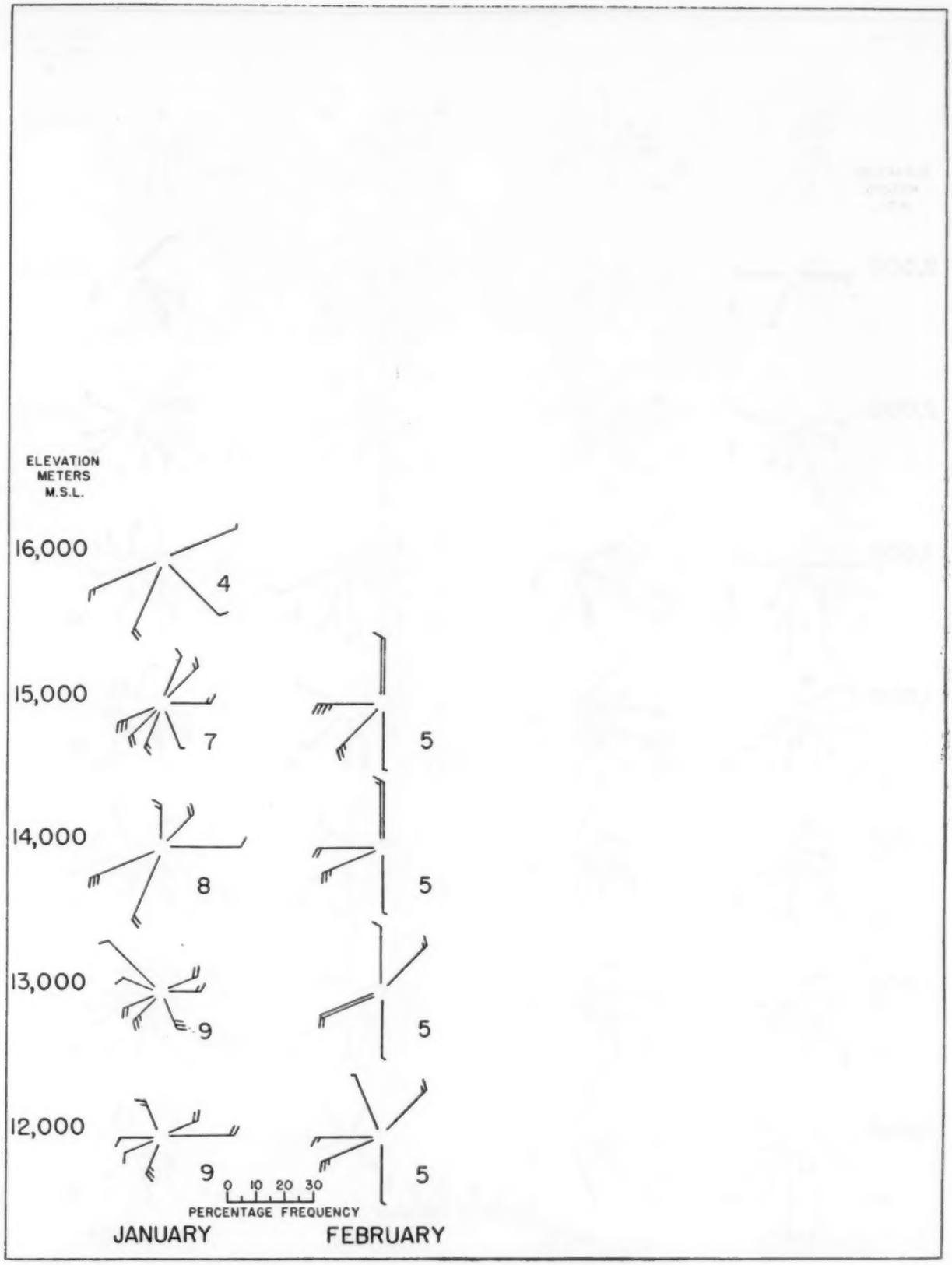

FIGURE 4c.—Wind roses, January to April, 12-16 kilometers.

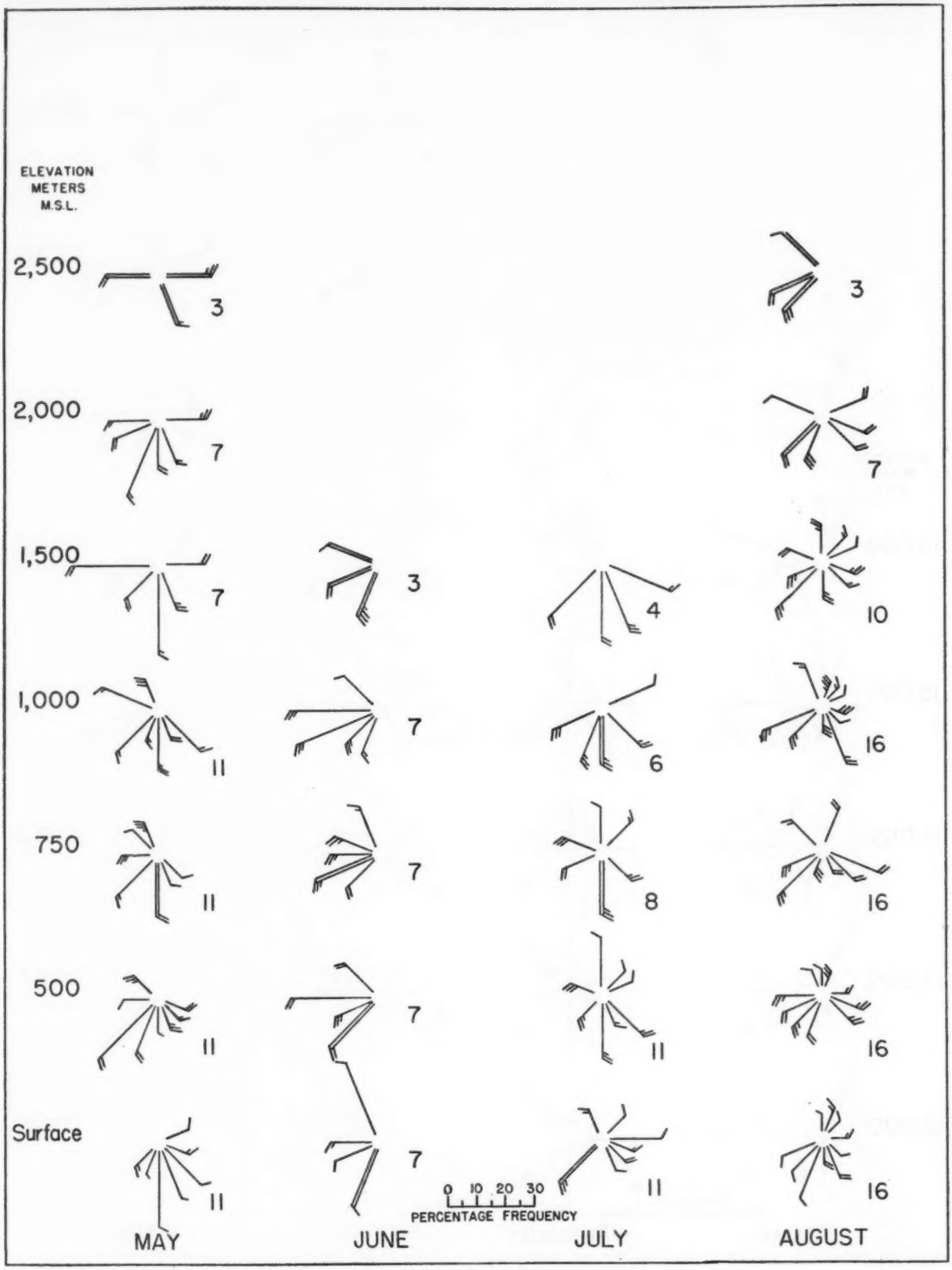

FIGURE 5.—Wind roses, May to August, surface to 3 kilometers.

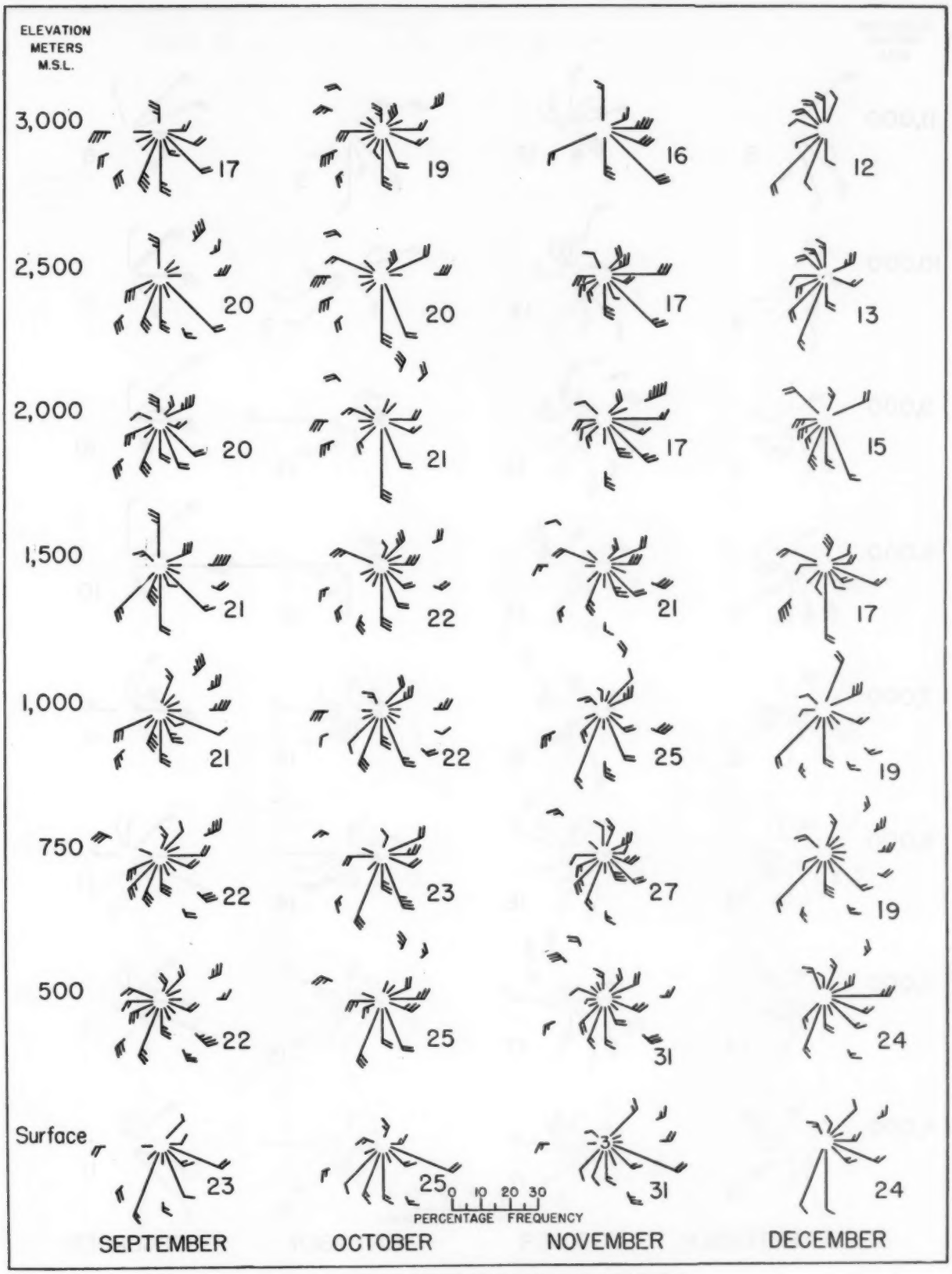

FIGURE 6a.—Wind roses, September to December, surface to 3 kilometers.

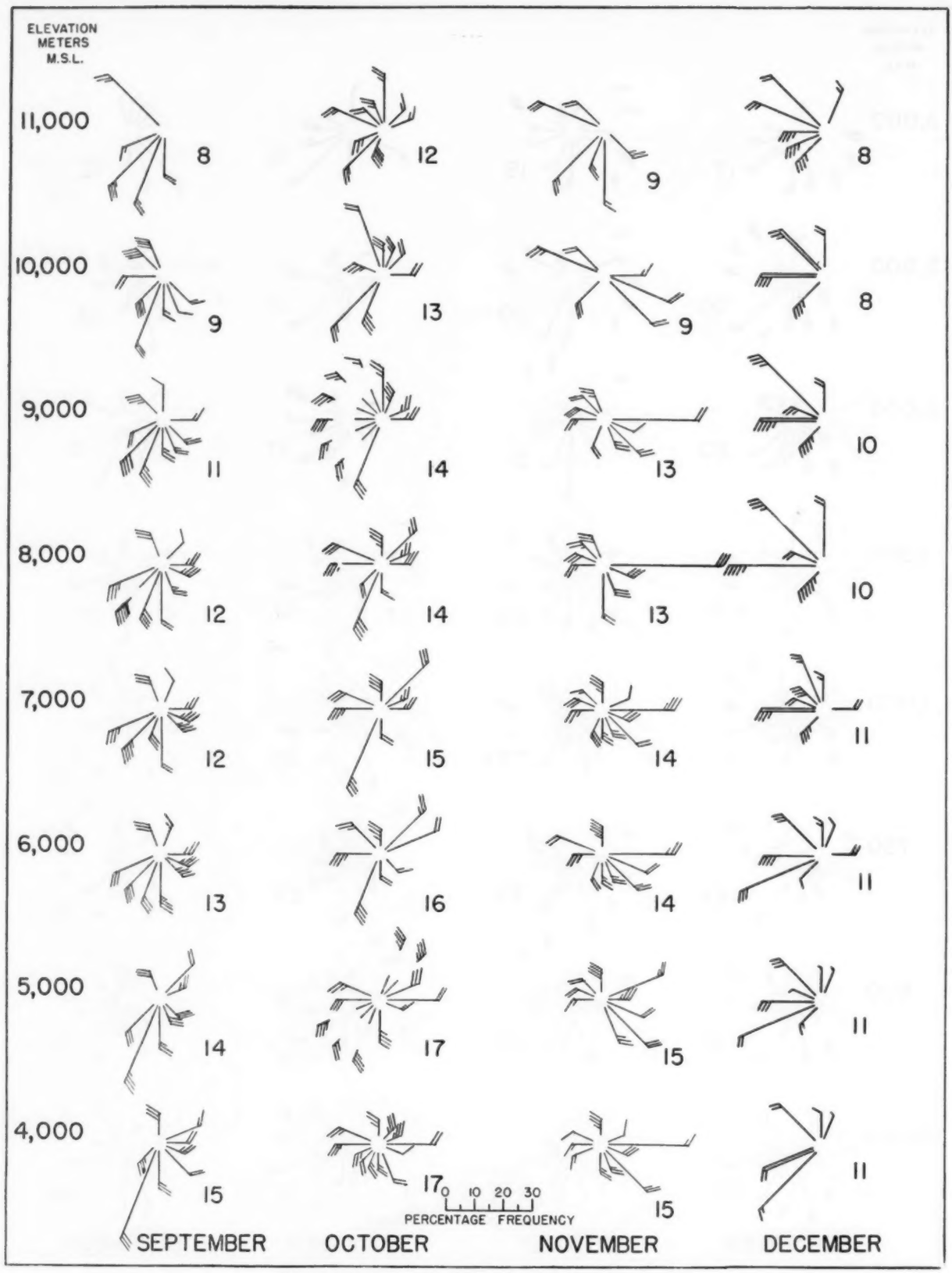

FIGURE 6b.—Wind roses, September to December, 4–11 kilometers

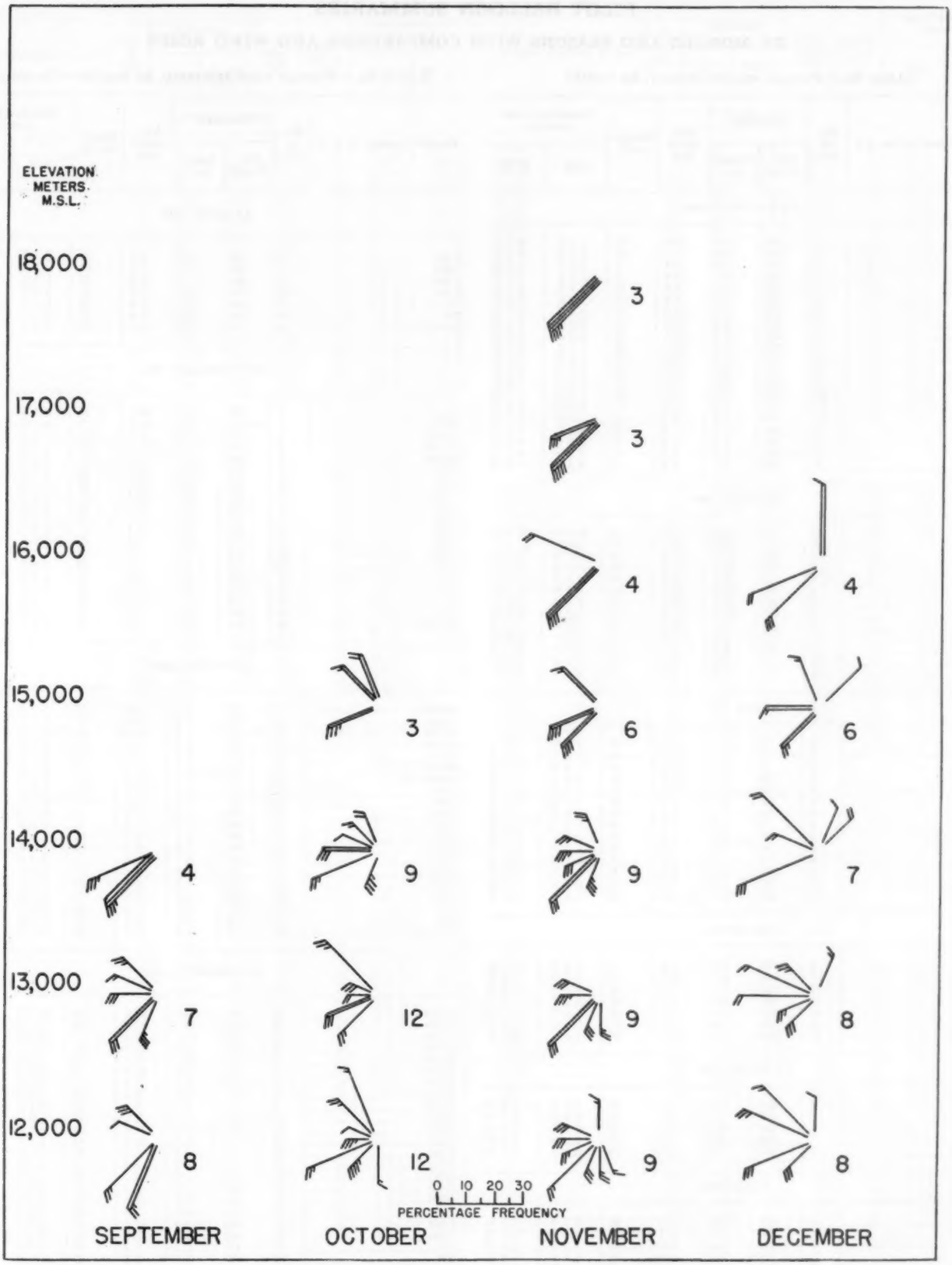

FIGURE 6c.—Wind roses, September to December, 12–18 kilometers.

PILOT BALLOON SUMMARIES

BY MONTHS AND SEASONS WITH COMPARISONS AND WIND ROSES

TABLE 9a.—*Free-air wind summary, by months*

Height (meters) m. s. l.	No. of obs.	Resultant		Avg. speed m/s	Stability %	Resultant components	
		Dir. N=360°	Speed m/s			N-S	E-W
FEBRUARY 1940							
15,000	5	264	4.3	6.0	72	0.5 S	4.3 W
14,000	5	285	3.3	5.4	61	0.8 N	3.2 W
13,000	5	265	1.9	4.4	43	0.2 S	1.9 W
12,000	5	266	2.0	3.8	53	0.1 S	2.0 W
11,000	5	252	2.3	5.0	46	0.7 S	2.1 W
10,000	5	218	2.1	5.8	36	1.7 S	1.3 W
9,000	6	134	2.9	9.2	31	2.0 S	2.1 W
8,000	7	207	6.6	16.3	40	5.9 S	3.0 W
7,000	7	221	3.4	14.1	24	2.5 S	2.2 W
6,000	8	266	6.4	13.4	48	0.4 S	6.4 W
5,000	8	273	6.0	11.0	54	0.4 N	6.1 W
4,000	9	291	7.0	10.9	64	2.5 N	6.5 W
3,000	9	293	6.6	9.9	67	2.6 N	6.0 N
2,500	10	290	5.3	8.2	65	1.8 N	5.0 W
2,000	12	287	4.1	6.3	65	1.2 N	3.9 W
1,500	16	239	2.8	6.9	41	1.4 S	2.4 W
1,000	18	216	3.5	7.2	49	2.8 S	2.0 W
750	19	204	3.1	7.2	43	2.8 S	1.3 W
500	19	192	3.1	7.0	44	3.0 S	0.7 W
Sfc=35	19	193	2.1	4.1	51	2.1 S	0.5 W
MARCH 1940							
8,000	3	315	14.2	15.0	95	10.0 N	10.1 W
7,000	3	299	13.7	14.7	93	6.6 N	11.9 W
6,000	3	300	12.4	13.3	93	6.1 N	10.8 W
5,000	3	296	12.8	13.7	93	5.6 N	11.6 W
4,000	3	284	13.4	14.0	96	3.3 N	12.9 W
3,000	4	292	12.5	13.5	92	4.7 N	11.7 W
2,500	5	294	10.8	11.6	93	4.4 N	9.9 W
2,000	6	281	10.3	11.8	88	2.0 N	10.2 W
1,500	8	264	8.8	10.4	85	1.0 S	8.7 W
1,000	10	257	4.0	5.8	69	0.9 S	3.9 W
750	12	239	2.4	5.2	46	1.2 S	2.1 W
500	14	212	1.7	7.0	24	1.4 S	0.9 W
Sfc=35	14	167	1.8	5.4	33	1.8 S	0.4 E
APRIL 1940							
9,000	3	12	8.5	13.0	65	8.3 N	1.8 E
8,000	3	8	13.3	16.7	80	13.2 N	1.8 E
7,000	3	8	11.3	14.0	80	11.3 N	1.5 E
6,000	3	22	10.7	12.0	89	9.9 N	4.1 E
5,000	3	24	10.7	11.0	97	9.7 N	4.4 E
4,000	3	23	8.7	9.3	93	8.0 N	3.4 E
3,000	3	10	5.9	8.0	74	5.8 N	1.0 E
2,500	4	5	1.6	7.0	23	1.6 N	0.2 E
2,000	4	20	3.7	5.8	64	3.5 N	1.3 E
1,500	7	38	1.9	5.7	33	1.5 N	1.2 E
1,000	8	84	1.0	5.0	20	0.1 N	1.0 E
750	9	299	0.5	6.2	8	0.2 N	0.4 W
500	13	88	2.4	7.5	32	0.1 N	2.4 E
Sfc=35	13	127	2.5	4.0	63	1.5 S	2.0 E
MAY 1940							
2,500	3	124	2.2	7.0	31	1.2 S	1.8 E
2,000	7	190	2.9	5.6	52	2.9 S	0.5 W
1,500	7	190	3.6	5.9	61	3.5 S	0.6 W
1,000	11	208	2.6	6.0	43	2.3 S	1.2 W
750	11	225	2.2	5.5	40	1.6 S	1.6 W
500	11	206	3.2	5.8	55	2.9 S	1.4 W
Sfc=35	11	164	1.7	2.3	74	1.6 S	0.5 E
JUNE 1940							
1,500	3	223	7.5	8.7	86	5.5 S	5.1 W
1,000	7	250	7.1	7.7	92	2.4 S	6.7 W
750	7	261	6.8	7.7	88	1.0 S	6.7 W
500	7	250	6.0	6.9	87	2.0 S	5.6 W
Sfc=35	7	256	1.8	2.9	62	0.4 S	1.8 W
JULY 1940							
1,500	4	176	5.9	7.3	81	5.9 S	0.5 E
1,000	6	189	6.6	8.7	76	6.6 S	1.1 W
750	8	193	4.1	8.0	51	4.0 S	0.9 W
500	11	174	3.4	7.5	45	3.4 S	0.4 E
Sfc=35	11	177	1.5	4.1	37	1.5 S	0.1 E

TABLE 9a.—*Free-air wind summary, by months*—Continued

Height (meters) m. s. l.	No. of obs.	Resultant		Avg. speed m/s	Stability %	Resultant components	
		Dir. N=360°	Speed m/s			N-S	E-W
AUGUST 1940							
2,500	3	243	5.8	6.7	86	2.7 S	5.1 W
2,000	7	195	2.6	7.0	37	2.5 S	0.7 W
1,500	10	201	1.4	6.6	21	1.3 S	0.5 W
1,000	16	189	2.4	7.8	31	2.4 S	0.4 W
750	16	188	2.4	7.9	30	2.4 S	0.4 W
500	16	190	2.0	7.4	27	2.0 S	0.3 W
Sfc=35	16	166	1.0	3.0	33	1.0 S	0.2 E
SEPTEMBER 1940							
14,000	4	231	14.5	14.8	98	9.1 S	11.3 W
13,000	7	244	9.0	11.7	77	4.0 S	8.1 W
12,000	8	225	6.6	8.8	75	4.7 S	4.7 W
11,000	8	232	7.1	9.5	75	4.4 S	5.6 W
10,000	9	230	5.6	9.3	60	3.6 S	4.3 W
9,000	11	212	7.0	11.2	62	6.0 S	3.7 W
8,000	12	208	8.1	13.8	59	7.1 S	3.9 W
7,000	12	205	6.6	13.1	47	6.0 S	2.8 W
6,000	13	198	6.7	12.8	52	6.4 S	2.1 W
5,000	14	189	6.1	11.6	53	6.1 S	1.0 W
4,000	15	181	5.8	10.1	58	5.8 S	0.1 W
3,000	17	190	5.6	9.4	60	5.5 S	1.0 W
2,500	20	177	3.7	9.2	40	3.7 S	0.2 E
2,000	20	163	3.7	8.9	42	3.6 S	1.1 E
1,500	21	169	4.2	8.8	48	4.2 S	0.8 E
1,000	21	176	3.4	8.6	39	3.4 S	0.2 E
750	22	180	3.7	8.6	43	3.7 S	0.0
500	22	187	3.6	8.1	45	3.6 S	0.4 W
Sfc=35	23	164	2.7	3.9	69	2.4 S	1.3 E
OCTOBER 1940							
15,000	3	278	6.9	9.0	76	1.0 N	6.9 W
14,000	9	265	7.9	9.1	87	0.7 S	7.9 W
13,000	12	269	7.5	9.4	80	0.1 S	7.5 W
12,000	12	267	6.5	8.9	73	0.3 S	6.5 W
11,000	12	273	4.3	9.7	44	0.2 N	4.3 W
10,000	13	277	2.9	10.0	29	0.4 N	2.9 W
9,000	14	273	3.7	11.6	32	0.2 N	3.7 W
8,000	14	251	3.6	12.8	28	1.2 S	3.5 W
7,000	15	265	2.2	12.7	17	0.2 S	2.2 W
6,000	16	279	1.3	11.7	11	0.2 N	1.3 W
5,000	17	200	0.9	11.2	8	0.9 S	0.3 W
4,000	17	209	1.1	9.9	11	1.0 S	0.5 W
3,000	19	210	1.6	8.3	19	1.4 S	0.8 W
2,500	20	187	2.7	8.2	33	2.7 S	0.4 W
2,000	21	184	2.9	7.9	37	2.9 S	0.2 W
1,500	22	154	3.0	8.0	37	2.7 S	1.3 E
1,000	23	172	3.7	7.6	49	3.7 S	0.5 E
750	23	169	4.1	7.8	52	4.1 S	0.8 E
500	25	166	3.5	8.1	43	3.4 S	0.8 E
Sfc=35	25	155	2.8	4.7	60	2.5 S	1.2 E
NOVEMBER 1940							
18,000	3	225	23.7	23.7	100	16.7 S	16.7 W
17,000	3	230	22.4	22.7	98	14.3 S	17.2 W
16,000	4	230	15.9	16.8	95	10.2 S	12.2 W
15,000	6	243	11.8	13.0	91	5.4 S	10.5 W
14,000	9	242	10.0	12.3	82	4.7 S	8.9 W
13,000	9	234	8.4	10.7	77	4.9 S	6.8 W
12,000	9	238	6.0	8.6	70	3.2 S	5.1 W
11,000	9	231	4.7	8.4	56	3.0 S	3.7 W
10,000	9	217	2.6	7.9	33	2.1 S	1.6 W
9,000	13	120	1.5	7.7	19	0.8 S	1.3 E
8,000	13	102	3.4	10.5	32	0.7 S	3.3 E
7,000	14	110	3.7	10.9	34	1.3 S	3.5 E
6,000	14	111	2.8	9.4	30	1.0 S	2.6 E
5,000	15	96	4.7	9.5	49	0.1 S	4.7 E
4,000	15	110	5.2	9.0	58	1.8 S	4.9 E
3,000	16	122	5.6	8.8	64	3.0 S	4.8 E
2,500	17	125	4.6	8.0	57	2.6 S	3.8 E
2,000	17	118	4.6	7.8	59	2.2 S	4.0 E
1,500	21	132	3.4	7.5	45	2.3 S	2.5 E
1,000	25	152	2.5	5.8	43	2.3 S	1.2 E
750	27	169	2.5	6.2	40	2.5 S	0.5 E
500	31	144	1.7	5.9	29	1.4 S	1.0 E
Sfc=35	31	134	2.6	4.3	60	1.8 S	1.9 E

TABLE 9a.—*Free-air wind summary, by months*—Continued

Height (meters) m. s. l.	No. of obs.	Resultant		Avg. speed m/s	Stability %	Resultant components	
		Dir. N=360°	Speed m/s			N-S	E-W
DECEMBER 1940							
16,000	4	265	2.7	4.8	56	0.2 S	2.7 W
15,000	6	252	3.4	5.0	68	1.0 S	3.2 W
14,000	7	281	4.5	7.1	63	0.9 N	4.5 W
13,000	8	272	6.1	7.6	80	0.3 N	6.1 W
12,000	8	267	6.9	8.5	81	0.4 S	6.9 W
11,000	8	273	7.9	10.1	78	0.4 N	7.9 W
10,000	8	280	11.2	13.4	83	1.9 N	11.0 W
9,000	10	278	16.2	18.6	87	2.4 N	16.1 W
8,000	10	281	14.6	17.8	82	2.7 N	14.4 W
7,000	11	281	9.7	13.3	73	1.8 N	9.5 W
6,000	11	274	7.7	10.4	71	0.6 N	7.6 W
5,000	11	275	6.6	7.9	84	0.6 N	6.5 W
4,000	11	262	4.3	5.5	78	0.6 S	4.2 W
3,000	12	265	2.0	4.6	44	0.2 S	2.0 W
2,500	13	228	1.5	5.3	28	1.0 S	1.1 W
2,000	15	217	1.9	5.5	35	1.5 S	1.1 W
1,500	17	174	2.1	5.8	36	2.1 S	0.2 E
1,000	19	150	1.7	6.1	28	1.4 S	0.8 E
750	19	154	2.0	5.6	36	1.8 S	0.9 E
500	24	123	1.9	5.3	36	1.0 S	1.6 E
Sfc=35	24	128	1.9	3.3	57	1.2 S	1.5 E
JANUARY 1941							
16,000	4	205	2.0	3.5	57	1.8 S	0.8 W
15,000	7	223	1.4	4.6	30	1.0 S	0.9 W
14,000	8	233	1.9	5.6	34	1.1 S	1.5 W
13,000	9	192	1.4	5.2	27	1.4 S	0.3 W
12,000	9	111	1.1	4.7	23	0.4 S	1.0 E
11,000	9	92	1.2	5.2	23	0.0	1.2 E
10,000	9	239	1.3	10.8	12	0.7 S	1.1 W
9,000	10	229	3.1	16.4	19	2.0 S	2.3 W
8,000	11	205	2.4	15.1	16	2.2 S	1.0 W
7,000	11	190	1.0	11.8	8	1.0 S	0.2 W
6,000	11	175	1.4	8.1	17	1.4 S	0.1 E
5,000	11	159	1.2	6.2	19	1.1 S	0.4 E
4,000	11	157	1.1	5.5	20	1.1 S	0.4 E
3,000	11	127	1.5	5.3	28	0.9 S	1.2 E
2,500	14	97	1.9	5.4	25	0.2 S	1.9 E
2,000	15	98	2.7	6.2	43	0.4 S	2.6 E
1,500	17	116	1.8	4.9	37	0.8 S	1.7 E
1,000	18	127	1.1	5.1	22	0.7 S	0.9 E
750	19	119	1.2	5.3	19	0.6 S	1.1 E
500	24	119	2.4	5.5	44	1.1 S	2.1 E
Sfc=35	24	133	3.2	4.3	74	2.2 S	2.3 E

TABLE 9b.—*Free-air wind summary, by seasons, 1940–1941*

Height (meters) m. s. l.	No. of obs.	Resultant		Avg. speed m/s	Stability %	Resultant components	
		Dir. N=360°	Speed m/s			N-S	E-W
FALL 1940							
13,000	3	302	5.7	8.7	65	3.0 N	4.9 W
12,000	3	288	3.9	7.3	53	1.2 N	3.7 W
11,000	3	318	4.8	10.3	47	3.6 N	3.2 W
10,000	4	342	10.7	15.0	71	10.2 N	3.3 W
9,000	5	340	8.0	12.4	64	7.5 N	2.7 W
8,000	6	340	12.3	15.8	78	11.6 N	4.2 W
7,000	6	330	10.3	14.3	72	8.9 N	5.2 W
6,000	6	337	8.7	12.7	68	8.0 N	3.4 W
5,000	6	335	8.5	12.3	69	7.7 N	3.6 W
4,000	7	323	6.0	10.4	58	4.8 N	3.6 W
3,000	9	304	6.7	10.0	67	3.8 N	5.6 W
2,500	12	300	4.2	8.8	48	2.1 N	3.6 W
2,000	17	276	3.5	7.8	45	0.3 N	3.5 W
1,500	22	252	3.1	7.5	41	1.0 S	3.0 W
1,000	29	233	1.9	5.7	33	1.1 S	1.5 W
750	32	237	1.7	5.6	30	0.9 S	1.4 W
500	38	177	1.3	6.8	19	1.3 S	0.1 E
Sfc=35	38	149	1.9	4.0	47	1.6 S	1.0 E
WINTER 1940							
2,500	4	226	4.1	6.3	65	2.9 S	3.0 W
2,000	10	185	2.3	6.2	37	2.3 S	0.2 W
1,500	17	199	3.3	7.1	47	3.1 S	1.1 W
1,000	29	212	3.8	8.0	48	3.3 S	2.0 W
750	31	220	3.1	7.9	39	2.4 S	2.0 W
500	34	206	2.7	7.3	37	2.4 S	1.2 W
Sfc=35	34	192	1.1	3.3	33	1.0 S	0.2 W

TABLE 9b.—*Free-air wind summary, by seasons, 1940–1941*—Con.

Height (meters) m. s. l.	No. of obs.	Resultant		Avg. speed m/s	Stability %	Resultant components	
		Dir. N=360°	Speed m/s			N-S	E-W
SPRING 1940							
19,000	3	244	9.6	14.7	65	4.3 S	8.6 W
18,000	6	236	16.4	19.8	83	9.3 S	13.6 W
17,000	6	240	15.3	18.5	83	9.3 S	13.2 W
16,000	7	241	12.0	14.9	80	7.8 S	10.5 W
15,000	10	250	9.8	11.5	89	5.9 S	9.3 W
14,000	22	246	9.7	11.5	84	3.3 S	8.9 W
13,000	28	250	7.9	10.4	76	2.6 S	7.4 W
12,000	29	247	6.0	8.8	68	2.4 S	5.6 W
11,000	29	245	4.9	9.2	53	2.0 S	4.5 W
10,000	31	243	3.3	9.2	36	1.5 S	2.9 W
9,000	38	225	2.7	10.1	27	1.9 S	2.0 W
8,000	39	205	3.1	12.4	25	2.8 S	1.3 W
7,000	41	191	2.3	12.2	19	2.3 S	.4 W
6,000	43	186	2.3	11.3	20	2.2 S	.2 W
5,000	46	154	2.6	10.8	24	2.3 S	1.1 E
4,000	47	154	3.1	9.7	32	2.7 S	1.3 E
3,000	52	165	3.4	8.8	39	3.2 S	.9 E
2,500	57	160	3.2	8.5	38	3.0 S	1.1 E
2,000	58	153	3.3	8.2	40	2.9 S	1.5 E
1,500	64	153	3.4	8.1	42	3.0 S	1.5 E
1,000	69	168	3.2	7.2	44	3.1 S	.7 E
750	72	173	3.4	7.5	47	3.4 S	.4 E
500	78	168	2.7	7.3	37	2.6 S	.6 E
Sfc=35	79	146	2.5	4.3	58	2.2 S	1.5 E
SUMMER 1940–41							
17,000	4	236	1.8	2.5	72	1.0 S	1.5 W
16,000	10	243	1.4	3.7	38	.6 S	1.3 W
15,000	18	252	2.8	5.1	55	.9 S	2.6 W
14,000	20	271	3.0	6.1	49	.1 N	3.0 W
13,000	22	259	2.8	5.9	47	.5 S	2.8 W
12,000	22	263	2.6	5.9	44	.3 S	2.5 W
11,000	22	269	2.9	7.0	41	----------	2.9 W
10,000	22	270	4.7	10.6	44	----------	4.7 W
9,000	26	267	6.6	15.6	42	.3 S	6.6 W
8,000	28	258	6.4	16.4	39	1.4 S	6.3 W
7,000	29	266	4.2	12.9	33	.3 S	4.2 W
6,000	30	265	4.5	10.3	44	.4 S	4.4 W
5,000	30	268	3.8	8.1	47	.1 S	3.8 W
4,000	31	273	3.2	7.1	45	.1 N	3.2 W
3,000	32	280	2.1	6.3	33	.4 N	2.0 W
2,500	37	271	1.0	6.1	16	----------	1.0 W
2,000	42	242	.7	6.0	12	.3 S	.6 W
1,500	50	185	1.4	5.9	24	1.4 S	.1 W
1,000	55	183	1.6	6.1	26	1.6 S	.1 W
750	57	172	1.8	6.0	30	1.8 S	.2 E
500	67	146	2.0	5.9	34	1.6 S	1.1 E
Sfc=35	67	145	2.2	3.9	56	1.8 S	1.3 E

TABLE 9c.—*Free-air wind summary, by seasons, with months weighted*

Height (meters) m. s. l.	No. of obs.	Resultant		Avg. speed m/s	Stability %	Resultant components	
		Dir. N=360°	Speed m/s			N-S	E-W
FALL 1940							
8,000	6	340	12.3	15.8	78	11.6 N	4.2 W
7,000	6	330	10.4	14.4	72	9.0 N	5.2 W
6,000	6	337	8.7	12.6	69	8.0 N	3.4 W
5,000	6	335	8.5	12.4	69	7.7 N	3.6 W
4,000	7	320	7.5	11.6	65	5.7 N	4.8 W
3,000	9	314	7.6	10.8	70	5.3 N	5.4 W
2,500	12	301	3.3	8.5	39	1.6 N	2.9 W
2,000	17	285	3.6	7.7	47	0.9 N	3.1 W
1,500	22	250	2.9	7.3	40	1.0 S	2.7 W
1,000	29	233	1.4	6.3	22	1.0 S	1.4 W
750	32	238	1.7	5.6	30	0.9 S	1.4 W
500	38	180	1.4	6.8	21	1.4 S	0.0
Sfc=35	38	149	1.9	3.9	49	1.6 S	1.0 E
WINTER 1940							
1,500	17	202	4.5	7.5	60	4.2 S	1.7 W
1,000	29	216	4.4	8.1	54	3.4 S	2.7 W
750	31	227	3.7	7.9	47	2.5 S	2.7 W
500	34	196	2.1	7.3	29	1.9 S	0.6 W
Sfc=35	34	207	1.1	3.3	33	1.0 S	0.5 W

TABLE 9c.—*Free-air wind summary, by seasons, with months weighted*—Continued

Height (meters) m. s. l.	No. of obs.	Resultant		Avg. speed m/s	Stability %	Resultant components	
		Dir. N=360°	Speed m/s			N-S	E-W
SPRING 1940							
18,000	6	240	14.8	19.8	75	7.4 S	12.8 W
17,000	6	240	13.0	18.5	70	6.4 S	11.3 W
16,000	7	248	11.1	14.9	74	4.0 S	9.8 W
15,000	10	253	9.2	11.5	80	2.7 S	8.9 W
14,000	22	238	11.0	11.5	96	4.8 S	9.4 W
13,000	28	248	8.0	10.4	77	3.0 S	7.5 W
12,000	29	244	6.0	8.8	68	2.7 S	5.4 W
11,000	29	252	5.7	9.2	62	2.4 S	4.5 W
10,000	31	239	3.4	9.2	37	1.8 S	2.9 W
9,000	38	223	3.0	10.1	30	2.2 S	2.0 W
8,000	39	205	3.3	12.4	27	3.0 S	1.4 W
7,000	41	186	2.6	12.2	20	2.6 S	0.3 W
6,000	43	186	2.4	11.3	21	2.4 S	0.3 W
5,000	46	157	2.7	10.8	25	2.5 S	1.1 E
4,000	47	154	3.2	9.7	33	2.9 S	1.4 E
3,000	52	163	3.4	8.8	40	3.3 S	1.0 E
2,500	57	158	3.2	8.5	38	3.0 S	1.2 E
2,000	58	151	3.3	8.2	40	2.9 S	1.6 E
1,500	64	153	3.5	8.1	41	3.1 S	1.5 E
1,000	69	169	3.8	7.2	44	3.1 S	0.6 E
750	72	173	3.4	7.5	45	3.4 S	0.4 E
500	78	171	2.8	7.3	40	2.8 S	0.5 E
Sfc=35	80	149	2.5	4.4	59	2.2 S	1.3 E
SUMMER 1940, 1940–41							
16,000	8	240	2.0	4.2	48	1.0 S	1.8 W
15,000	18	253	2.9	5.2	56	0.8 S	2.8 W
14,000	20	266	3.1	6.0	52	0.2 S	3.1 W
13,000	22	267	2.8	5.7	49	0.4 S	2.8 W
12,000	22	263	2.6	5.7	46	0.3 S	2.6 W
11,000	22	268	2.9	6.8	43	0.2 S	2.9 W
10,000	22	268	4.5	10.0	45	0.2 S	4.5 W
9,000	26	266	6.8	14.7	46	0.5 S	6.8 W
8,000	28	254	6.4	16.4	39	1.8 S	6.1 W
7,000	29	262	4.0	13.1	31	0.6 S	4.0 W
6,000	30	262	4.6	10.6	43	0.4 S	4.6 W
5,000	30	270	4.1	8.4	49	0.0	4.1 W
4,000	31	276	3.4	7.3	47	0.3 N	3.4 W
3,000	32	294	2.3	6.6	35	0.5 N	2.3 W
2,500	37	274	1.4	6.3	22	0.2 N	1.4 W
2,000	42	251	0.8	6.0	13	0.2 S	0.8 W
1,500	50	187	1.4	5.9	24	1.4 S	0.2 W
1,000	55	184	1.6	6.1	26	1.6 S	0.1 W
750	57	172	1.7	6.0	28	1.7 S	0.2 E
500	56	150	2.0	5.9	34	1.7 S	1.0 E
Sfc=35	67	149	2.1	3.9	54	1.8 S	1.1 E

TABLE 10a.—*Free-air monthly wind summary, including other years of record, weighted by months*

Height (meters) m. s. l.	No. of obs.	Resultant		Avg. speed m/s	Stability %	Resultant components	
		Dir. N=360°	Speed m/s			N-S	E-W
FEBRUARY 1929, 1940							
10,000	8	278	2.9	6.1	47	1.7 N	2.5 W
9,000	12	315	4.7	10.0	47	3.3 N	3.4 W
8,000	14	288	5.4	15.2	36	1.6 N	5.2 W
7,000	15	302	4.0	11.8	34	2.1 N	3.4 W
6,000	22	282	6.5	11.5	56	2.7 N	5.9 W
5,000	23	283	5.1	9.3	55	2.1 N	4.7 W
4,000	26	331	5.5	8.2	67	2.6 N	4.8 W
3,000	30	297	4.1	7.4	56	1.8 N	3.7 W
2,500	32	272	2.1	6.7	31	0.8 N	2.0 W
2,000	38	254	0.9	6.7	14	0.3 S	0.9 W
1,500	42	169	1.9	7.7	25	1.9 S	0.4 E
1,000	48	170	1.8	7.6	24	1.8 S	0.3 E
750	51	148	3.2	7.6	42	1.9 S	1.2 E
500	51	135	2.8	7.7	36	2.0 S	1.9 E
Sfc=35	52	148	2.0	4.3	46	1.7 S	1.0 E
MARCH 1929, 1940							
7,000	7	322	10.8	15.1	72	8.5 N	6.7 W
6,000	8	311	9.9	14.0	71	6.6 N	7.5 W
5,000	11	309	8.5	12.8	66	5.4 N	6.6 W
4,000	15	298	8.0	11.7	68	3.8 N	7.0 W
3,000	21	303	8.3	11.8	70	4.5 N	7.0 W
2,500	25	301	6.8	10.9	62	3.5 N	5.8 W
2,000	27	285	5.7	10.0	57	1.5 N	5.5 W
1,500	31	273	5.1	9.2	56	0.3 N	5.1 W
1,000	34	267	2.2	7.0	31	0.1 S	2.2 W
750	38	253	1.3	6.9	19	0.4 S	1.2 W
500	40	175	0.5	7.9	6	0.5 S	0.0
Sfc=35	41	133	1.9	5.1	38	1.3 S	1.4 E

TABLE 10a.—*Free-air monthly wind summary, including other years of record, weighted by months*—Continued

Height (meters) m. s. l.	No. of obs.	Resultant		Avg. speed m/s	Stability %	Resultant components	
		Dir. N=360°	Speed m/s			N-S	E-W
APRIL 1929, 1934, 1940							
8,000	7	322	4.8	17.3	28	3.8 N	3.0 W
7,000	15	9	5.3	12.0	44	5.2 N	0.8 E
6,000	21	25	5.2	10.9	47	4.6 N	2.2 E
5,000	30	36	4.4	9.1	48	3.5 N	2.6 E
4,000	35	53	4.4	8.3	53	2.7 N	3.5 E
3,000	51	40	2.2	7.6	29	1.7 N	1.4 E
2,500	66	70	0.8	7.3	11	0.3 N	0.8 E
2,000	77	71	1.6	6.8	16	0.5 N	1.5 E
1,500	85	93	1.1	7.1	16	0.1 S	1.1 E
1,000	94	146	2.1	6.6	32	1.8 S	1.2 E
750	100	124	1.1	7.0	16	0.6 S	0.9 E
500	110	110	2.4	7.8	31	0.9 S	2.4 E
Sfc=35	117	121	2.4	4.1	59	1.2 S	2.1 E
MAY 1929, 1934, 1940							
4,000	27	193	3.3	7.2	46	3.2 S	0.8 W
3,000	37	182	3.2	7.0	44	3.2 S	0.1 W
2,500	50	177	3.5	7.7	46	3.5 S	0.2 E
2,000	60	181	3.7	7.0	54	3.7 S	0.0
1,500	64	184	3.4	7.3	47	3.4 S	0.2 W
1,000	76	180	3.2	7.5	43	3.2 S	0.0
750	80	176	3.0	7.6	40	3.0 S	0.2 E
500	82	117	3.6	8.1	44	3.5 S	0.7 E
Sfc=35	88	157	1.7	3.0	57	1.6 S	0.7 E
JUNE 1929, 1934, 1940							
4,000	29	25	1.6	9.5	17	1.5 N	0.7 E
3,000	41	44	1.5	8.8	17	1.3 N	1.2 E
2,500	48	45	1.7	7.9	21	1.2 N	1.2 E
2,000	59	100	2.3	7.7	30	0.4 S	2.3 E
1,500	68	183	2.8	7.8	36	2.8 S	0.1 W
1,000	80	214	1.6	7.6	21	1.3 S	0.9 W
750	81	229	1.0	7.7	13	0.7 S	0.8 W
500	83	127	1.3	7.6	17	0.8 S	1.1 E
Sfc=35	86	142	1.2	3.7	30	0.8 S	0.6 E
JULY 1929, 1934, 1940							
4,000	28	265	2.3	9.4	24	0.2 S	2.3 W
3,000	49	247	4.0	8.2	49	0.9 S	3.9 W
2,500	54	249	3.9	8.0	49	1.4 S	3.6 W
2,000	57	230	4.1	7.9	52	2.6 S	3.1 W
1,500	66	201	4.3	7.5	57	4.0 S	1.5 W
1,000	76	200	5.3	8.3	64	5.0 S	1.8 W
750	82	201	4.3	8.0	54	4.0 S	1.6 W
500	91	197	1.8	8.3	22	1.7 S	0.5 W
Sfc=35	94	167	1.6	3.4	47	1.5 S	0.4 E
AUGUST 1929, 1934, 1940							
4,000	24	325	1.3	10.1	13	1.1 N	0.8 W
3,000	45	317	1.0	8.5	12	0.8 N	0.7 W
2,500	51	252	2.3	7.4	31	0.7 S	2.2 W
2,000	59	203	1.3	7.4	18	1.2 S	0.5 W
1,500	69	164	1.5	7.2	21	1.4 S	0.4 E
1,000	79	201	1.6	8.1	20	1.5 S	0.6 W
750	79	174	3.2	8.2	39	3.2 S	0.0
500	81	186	3.2	8.1	40	3.2 S	0.1 W
Sfc=35	83	174	1.3	2.9	45	1.3 S	0.1 E
SEPTEMBER 1929, 1934, 1940							
10,000	16	333	1.0	9.8	10	0.9 N	0.5 W
9,000	23	260	3.5	10.7	33	0.6 S	3.5 W
8,000	27	266	2.9	11.0	26	0.2 S	2.9 W
7,000	34	260	3.3	11.1	30	0.6 S	3.3 W
6,000	40	271	2.3	10.3	22	0.0	2.3 W
5,000	48	186	0.9	9.7	9	0.6 S	0.7 W
4,000	60	211	2.4	8.9	27	2.0 S	1.3 W
3,000	68	203	3.2	8.2	39	2.9 S	1.2 W
2,500	76	196	3.0	8.2	37	2.9 S	0.8 W
2,000	84	191	3.5	8.3	42	3.4 S	0.7 W
1,500	89	195	4.0	8.4	48	3.9 S	1.1 W
1,000	92	197	3.8	8.8	42	3.6 S	1.1 W
750	93	200	4.0	8.8	45	3.8 S	1.4 W
500	98	198	1.7	8.4	20	3.6 S	1.2 W
Sfc=35	101	183	1.9	3.5	54	1.9 S	0.1 W

TABLE 10a.—*Free-air monthly wind summary, including other years of record, weighted by months*—Continued

Height (meters) m. s. l.	No. of obs.	Resultant		Avg. speed m/s	Stability %	Resultant components	
		Dir. N=360°	Speed m/s			N-S	E-W
OCTOBER 1929, 1934, 1940							
9,000	21	82	1.7	13.3	13	0.3 N	1.7 E
8,000	26	211	0.4	13.3	3	0.3 S	0.2 W
7,000	36	279	3.3	12.2	27	0.5 N	3.3 W
6,000	41	276	1.5	10.6	13	0.2 N	1.5 W
5,000	52	193	0.8	10.1	8	0.3 S	0.8 W
4,000	58	206	1.2	9.0	13	1.1 S	0.5 W
3,000	71	188	1.6	7.7	21	1.6 S	0.2 W
2,500	77	176	2.1	7.5	27	2.1 S	0.1 E
2,000	87	172	2.4	7.3	34	2.4 S	0.3 E
1,500	93	160	2.6	7.2	36	2.4 S	0.9 E
1,000	102	169	2.7	7.4	37	2.6 S	0.5 E
750	104	173	2.7	7.4	37	2.7 S	0.4 E
500	110	166	2.7	7.7	35	2.6 S	0.6 E
Sfc=35	110	155	2.0	4.2	47	1.8 S	0.8 E
NOVEMBER 1929, 1934, 1940							
10,000	14	257	3.2	9.0	36	0.7 S	3.1 W
9,000	28	194	0.3	8.1	4	0.3 S	0.1 W
8,000	38	241	1.2	11.6	10	0.6 S	1.0 W
7,000	43	220	1.8	11.6	16	1.4 S	1.1 W
6,000	51	220	2.6	11.1	23	2.2 S	1.8 W
5,000	61	181	3.1	11.0	27	3.1 S	0.0
4,000	67	160	3.2	9.1	35	3.0 S	1.1 E
3,000	80	136	4.5	8.1	56	3.2 S	3.2 E
2,500	94	156	2.9	7.7	38	2.7 S	1.2 E
2,000	102	158	2.9	7.2	40	2.7 S	1.1 E
1,500	114	162	2.5	7.0	36	2.4 S	0.8 E
1,000	129	168	1.8	6.3	29	1.8 S	0.4 E
750	134	170	1.7	6.5	26	1.7 S	0.3 E
500	143	141	1.4	6.3	22	1.1 S	0.9 E
Sfc=35	149	135	2.3	4.3	53	1.6 S	1.6 E
DECEMBER 1929, 1934, 1940							
10,000	15	279	6.5	10.1	64	3.4 N	5.5 W
9,000	23	286	5.0	12.3	41	1.7 N	4.5 W
8,000	35	290	5.8	14.0	41	1.6 N	5.5 W
7,000	48	304	3.7	13.0	28	2.1 N	3.1 W
6,000	58	308	2.0	11.7	17	1.2 N	1.6 W
5,000	67	286	1.7	10.1	17	0.6 N	1.6 W
4,000	73	226	3.3	7.3	45	0.9 S	0.9 W
3,000	84	179	1.3	6.2	21	1.2 S	0.0
2,500	93	172	1.9	6.0	32	1.9 S	0.3 E
2,000	101	179	2.2	6.1	36	2.2 S	0.0
1,500	109	174	2.8	6.1	46	2.7 S	0.3 E
1,000	120	175	2.1	6.0	35	2.1 S	0.2 E
750	123	174	2.9	5.9	49	2.3 S	0.2 E
500	134	150	2.1	5.7	37	1.8 S	1.1 E
Sfc=35	136	138	1.8	3.4	53	1.3 S	1.2 E
JANUARY 1929, 1930, 1935, 1941							
9,000	13	137	3.2	12.6	25	2.3 S	2.2 E
8,000	25	286	5.8	17.3	34	2.0 N	5.4 W
7,000	35	267	7.8	15.3	51	0.4 S	7.8 W
6,000	42	276	6.4	12.3	52	0.6 N	6.3 W
5,000	49	271	5.3	10.1	53	0.2 N	5.3 W
4,000	57	251	3.5	7.9	44	1.0 S	3.4 W
3,000	63	243	1.5	7.1	21	0.6 S	1.4 W
2,500	68	260	0.8	6.8	12	0.6 S	0.5 W
2,000	77	150	1.8	7.0	26	1.2 S	0.7 E
1,500	95	151	1.5	6.4	23	1.3 S	0.8 E
1,000	106	147	1.3	6.4	20	1.1 S	0.7 E
750	110	135	1.6	6.5	25	1.1 S	1.1 E
500	118	124	2.1	6.7	31	1.2 S	1.8 E
Sfc=35	131	139	2.2	6.9	32	1.7 S	1.5 E

TABLE 10b.—*Free-air wind summary by seasons, including other years of record*

Height (meters) m. s. l.	No. of obs.	Resultant		Avg. speed m/s	Stability %	Resultant components	
		Dir. N=360°	Speed m/s			N-S	E-W
FALL 1929, 1934, 1940							
8,000	7	306	7.7	17.2	45	5.5 N	5.4 W
7,000	22	343	6.3	13.2	48	6.0 N	1.9 W
6,000	29	336	5.2	12.1	43	4.8 N	2.1 W
5,000	41	338	3.9	10.6	34	3.6 N	1.5 W
4,000	77	333	1.5	8.6	17	1.3 N	0.7 W
3,000	109	308	1.8	8.6	21	1.1 N	1.4 W
2,500	141	255	1.1	8.4	13	0.3 S	1.1 W
2,000	164	225	1.2	7.7	16	0.8 S	0.8 W
1,500	180	215	1.7	7.7	22	1.4 S	0.9 W
1,000	204	183	1.9	7.0	27	1.9 S	0.1 W
750	218	175	1.5	7.2	21	1.4 S	0.1 E
500	232	147	2.1	7.9	27	1.8 S	1.2 E
Sfc=35	246	135	2.0	3.9	51	1.4 S	1.4 E
WINTER 1929, 1934, 1940							
4,000	91	315	1.1	9.6	11	0.8 N	0.8 W
3,000	135	288	1.2	8.5	14	0.4 N	1.1 W
2,500	153	257	1.7	7.7	22	0.4 S	1.7 W
2,000	165	198	1.4	7.6	18	1.3 S	0.4 W
1,500	203	189	2.8	7.5	38	2.7 S	0.4 W
1,000	235	203	2.8	8.0	35	2.6 S	1.1 W
750	242	197	2.8	8.0	35	2.7 S	0.8 W
500	244	176	1.9	8.0	24	1.9 S	0.1 E
Sfc=35	263	163	1.2	3.3	36	1.2 S	0.4 E
SPRING 1929, 1934, 1940							
10,000	30	280	1.8	9.5	19	0.3 N	1.7 W
9,000	72	253	1.0	10.4	10	0.3 S	0.9 W
8,000	91	254	1.6	11.2	14	0.4 S	1.5 W
7,000	113	260	2.6	11.5	23	0.5 S	2.6 W
6,000	132	250	1.9	10.7	18	0.7 S	1.8 W
5,000	171	200	1.4	10.3	14	1.4 S	0.5 W
4,000	185	186	2.1	9.0	23	2.1 S	0.2 W
3,000	219	167	2.6	8.1	32	2.6 S	0.6 E
2,500	247	176	2.6	7.7	34	2.6 S	0.2 E
2,000	273	175	2.8	7.6	37	2.8 S	0.3 E
1,500	296	176	2.9	7.6	38	2.9 S	0.2 E
1,000	323	181	2.7	7.5	36	2.7 S	0.1 W
750	331	181	2.8	7.6	37	2.8 S	0.2 W
500	351	179	2.4	7.5	32	2.4 S	0.1 E
Sfc=35	360	156	1.9	4.0	48	1.8 S	0.8 E
SUMMER 1929, 1929-30, 1934-5, 1940, 1940-41							
10,000	23	299	3.9	8.0	49	1.9 N	3.4 W
9,000	48	293	2.6	10.3	25	1.0 N	2.3 W
8,000	74	288	5.8	15.5	37	1.7 N	5.4 W
7,000	98	281	5.4	13.6	40	1.0 N	5.2 W
6,000	125	285	1.5	11.9	13	1.3 N	4.6 W
5,000	139	281	4.0	9.9	40	0.7 N	3.9 W
4,000	156	267	3.0	7.8	38	0.2 S	2.8 W
3,000	177	258	1.4	6.7	21	0.3 S	1.4 W
2,500	183	218	0.9	6.5	14	0.7 S	0.6 W
2,000	216	175	1.3	6.7	19	1.3 S	0.1 E
1,500	246	166	2.0	6.6	30	1.9 S	0.5 E
1,000	274	165	1.6	6.5	25	1.6 S	0.4 E
750	284	153	1.9	6.5	29	1.7 S	0.8 E
500	303	135	2.2	6.6	33	1.6 S	1.6 E
Sfc=35	319	138	2.0	5.2	38	1.6 S	1.3 E

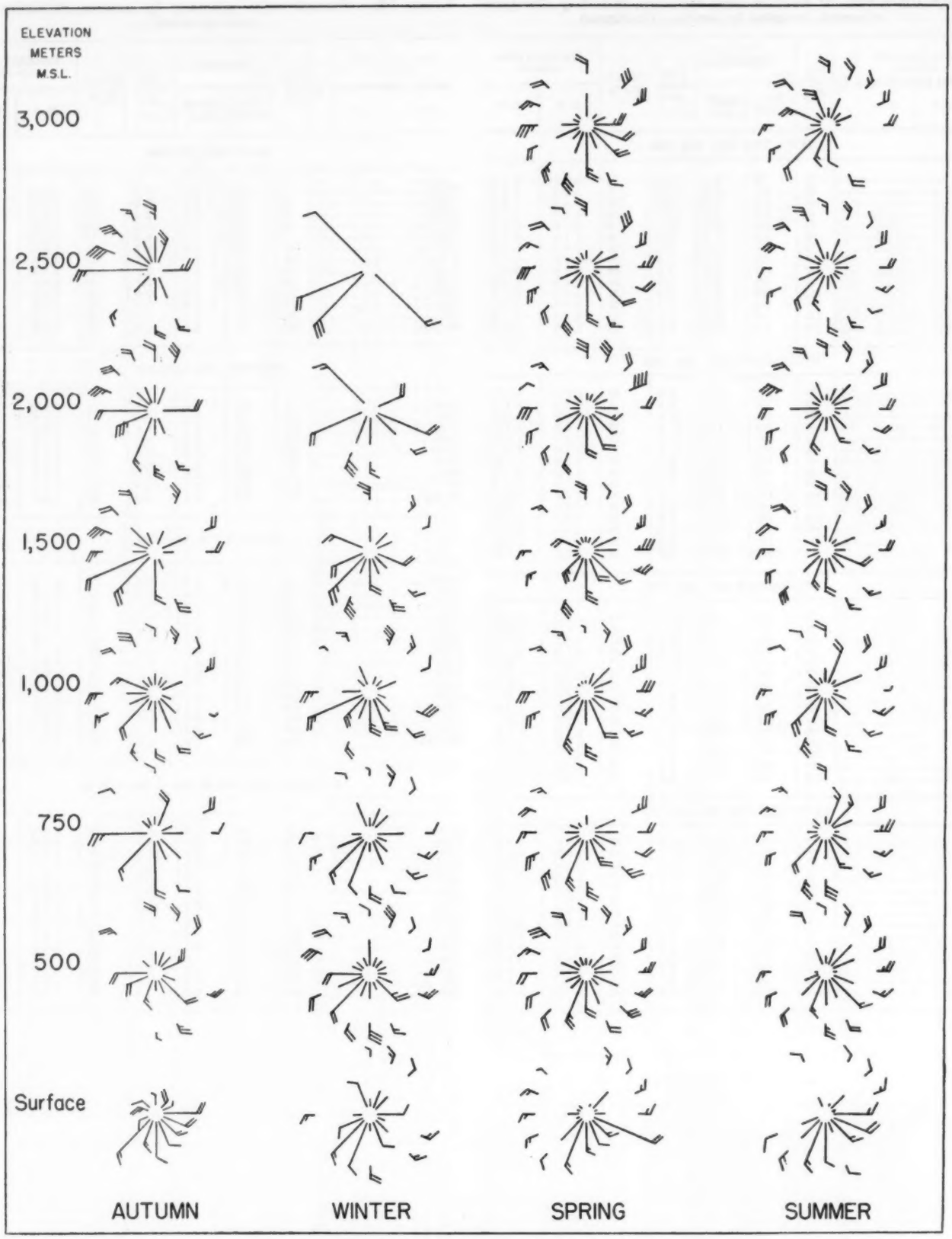

FIGURE 7a.—Wind roses, by seasons, surface to 3 kilometers.

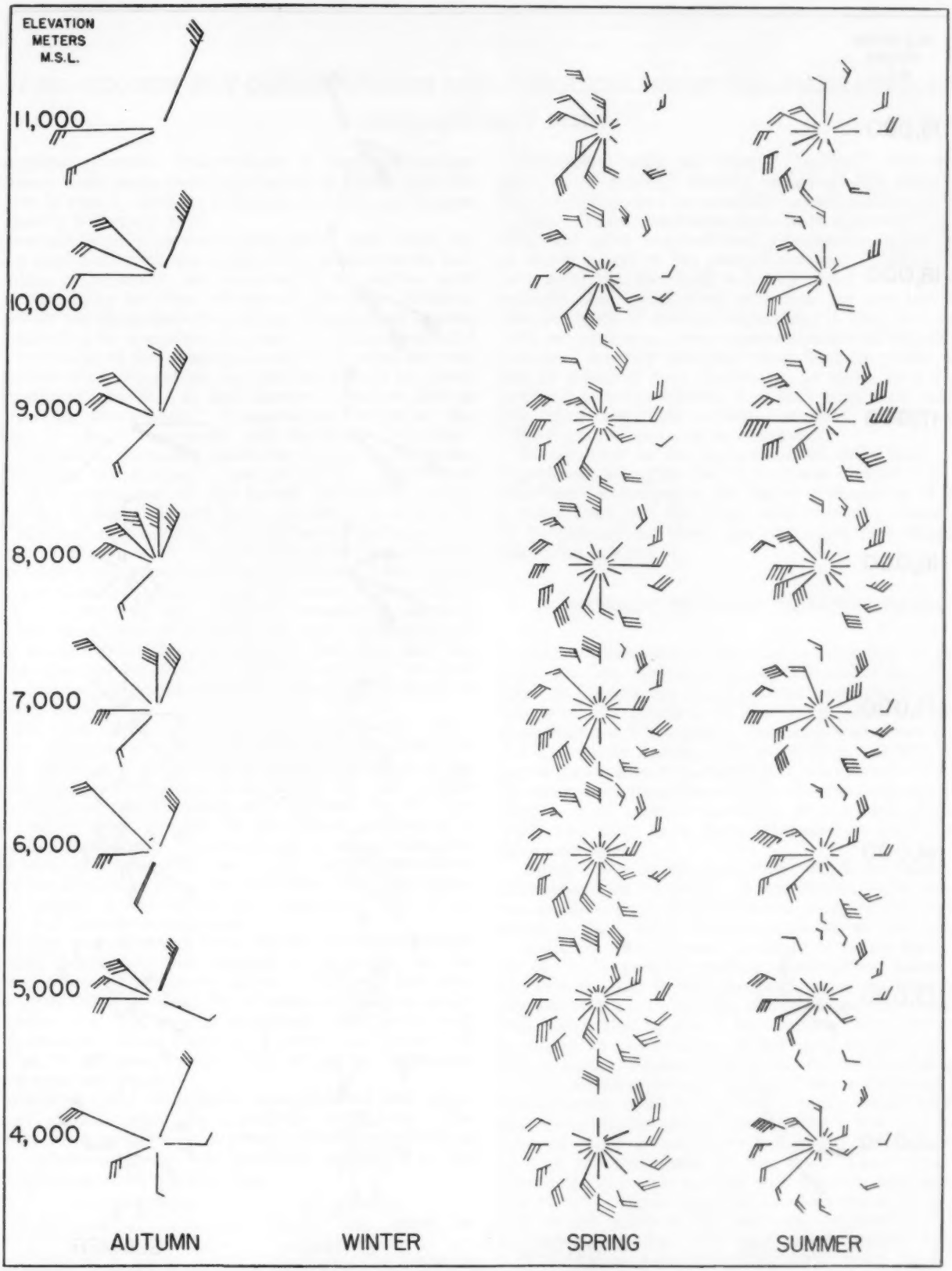

FIGURE 7b.—Wind roses, by seasons, 4–11 kilometers.

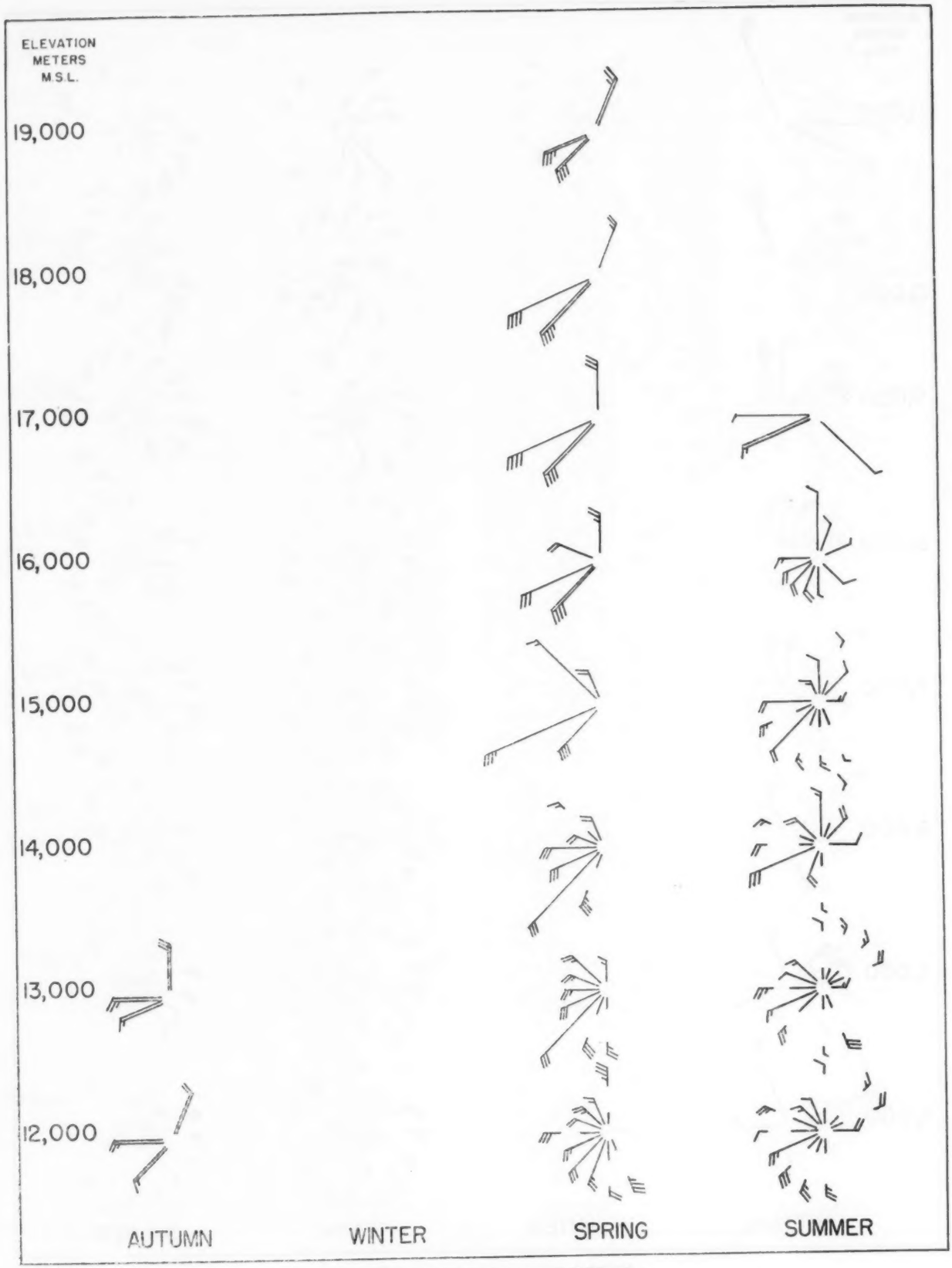

FIGURE 7c.—Wind roses, by seasons, 12-18 kilometers.

PART III. SIX-HOURLY OBSERVATIONS AND FREQUENCIES OF WEATHER CONDITIONS

EXPLANATORY NOTE

Complete synoptic observations of surface weather conditions were made every six hours at Little America III from March 1, 1940, to February 1, 1941, and irregularly during February 1940.

Observations of pressure, temperature, and wind, including explanation of the methods of measurement and evaluation of accuracy, are discussed in connection with tables pertaining to these elements. Pressure observations every six hours include readings of mercurial barometer, corrected for temperature, gravity, and instrumental error; reduction of this reading to sea level, using the current surface air temperature; and the barometric tendency (international scale 0 to 9) and change (in inches) during the preceding three hours. Temperature values are the readings of "dry," maximum, and minimum thermometers, corrected as discussed elsewhere; interpolated values (usually from thermograph) are in italics. Wind data are for a 3-minute period just before the hour of observation, the velocity usually being obtained from a 1/60 mile "blinker" connected to the regular anemometer.

Cloud cover was estimated in tenths of the sky covered, in accordance with international standards, "few" indicating less than one-tenth, 10- an "overcast with breaks," and "X" an obscured sky. Sky was considered obscured when less than 5/10 of it could be seen with sufficient clarity to determine the sky cover; if less than half the sky was obscured by surface weather conditions, the percent of cover of the visible part was considered to apply to the whole dome.

Clouds were identified solely according to the international classification, which provides nine types for each of three levels, with no listing of relative amounts of the various types. Directions were listed for the middle clouds; or, if no middle clouds were present, for the high clouds; or, as a last restort, for low clouds, according to the international code. Ceiling heights were estimated on the basis of pilot balloon and radiosonde observations, but are far from accurate. In accordance with the definition of ceiling, it was considered "unlimited" (U) if less than 5/10 of the sky was clouded.

Visibility was estimated from the few landmarks available and, during the four months of darkness, by the relative brightness of nearby lights. Values of less than 1 mile could be determined by reference to various buildings, poles, etc. At greater distances, there were only two landmarks: West Cape at 4 miles and Roosevelt Island at 30. Consequently, other values are estimates, and are none too reliable.

"State of weather" definitions were modified from international standards to fit Antarctic conditions. The transport of loose snow by a strong wind was defined as "drift," whose intensity was measured according to the same standards as snowfall or fog:

"V"	*Visibility (miles)*	*Weather*
0, 1	0, 1/35 to 1/16	Heavy fog, snow, or drift.
2, 3	1/8 to 1/4, 5/16 to 1/2	Moderate fog, snow, or drift.
4, 10	More than 1/2 mile	Light fog, snow, drift, rain, etc.

Conditions such as "hazy," "milky," "ice crystals," and "snow grains," usually occurred with more than 1/2 mile visibility, but occasionally caused reduction to lower values. These conditions have been accorded equal rank with the more conventional phenomena, since they are so much a part of the general climate. "Milky" applies to a condition in which a heavy cloud cover so diffuses sunlight that no shadows whatever are cast and perception of depth is almost impossible; it may be connected with saturation or even supersaturation of the air. "Ice crystals" are tiny spicules which float on gentle airs and can be detected near the sun or, at night, in a flashlight beam; it is quite possible that they exist on cloudy days, but they are undetectable without direct sunlight. "Snow grains" are a form of graupel.

In addition to the separation of drift into intensity degrees according to visibility, it was divided into "high" and "low" according to the degree of obscuring of the sky: if more than half the dome was obscured, causing "X" to be entered for cloud amount, drift was called high; otherwise it was low.

SEISMIC STATION OBSERVATIONS

Similar observations were taken according to the same rules, but less regularly, during November and December 1940, at the Seismic Station, an outpost established on the slopes of Mt. Franklin in the Rockefeller Mountains of King Edward VII Land. The camp was about 105 miles ENE of Little America III, at 78°6′ S, 155°30′ W, 1,280 feet above sea level (according to comparative pressures). Because even these incomplete observations are the first from a fixed station anywhere to the east of the Ross Shelf Ice, they have been tabulated in detail, and are discussed here.

North (or possibly northwest) winds prevailed during November and December, at Seismic Station in contrast to the southeast and east-southeast winds which were most common then, as in all other months, at the main base.

Although the outpost computations are based solely on the 117 synoptic surface observations taken during the two months it was occupied, since no recording apparatus was available, the observations were sufficiently well distributed to give a fair picture. More uncertainty is caused by the location of the camp on the east side of Mt. Franklin, a lesser peak of the Rockefeller Mountains.

"The anemometer and shelter," wrote Physicist Roy G. Fitzsimmons, head of the 3-man party which established and occupied the camp, "stood only a few feet from the ridge of rocks on the north and about 250 feet from the base of the mountain on the west. There was an unobstructed exposure to wind on the north, east, and south, but at times winds were recorded at the anemometer as NW or SW while at the cairn on the mountain summit the wind blew due west with much greater velocity."

If allowance is made for this obstruction, the resultant wind becomes roughly NW, or diametrically opposite to that at the Bay of Whales. That this is not merely a result of height difference is proved by the Little America

pilot ballon data, which show prevailing SE winds up to 10 km. in November and to 2 km. in December.

That averages derived from the synoptic observations alone are reasonably trustworthy is indicated by comparing values of mean monthly pressure obtained from these observations with means of hourly readings of the microbarograph, the only recording meteorological instrument at the camp:

	November	*December*	*Combined*
Avg. Press. at Observations (ins.)	27. 863	27. 989	27. 927
Avg. Press. from Barograph (ins.)	27. 677	27. 999	27. 908
Avg. Air Temperature (F^0)	9. 7	24. 6	16. 6

The average air temperature was obtained as the simple arithmetic mean of the observed current temperatures. Early breakage of the lone maximum thermometer, and lack of minimum readings whenever the small shelter was shaken by high wind, precluded use of more conventional methods of finding means.

As at Little America III, partly cloudy skies (4 to 6 tenths covered) were less frequent at Seismic Station than clear or overcast skies. However, scattered cloudiness (1, 2 or 3 tenths) was more frequent than cloudlessness, while the reverse is true in the Little America data. Possibly this is due to differences in observers, possibly to the difference in terrain, though it might be supposed a priori that at Little America III, with level horizon in all directions, scattered clouds would be noted more often than among hills which effectively limit the distance at which clouds can be seen.

Visibilities at Seismic Station were better than those recorded at Little America III, probably due to the elevation and greater distance from the sea. There also may have been personal differences as well, especially arising from the availability at Seismic Station of mountains in the middle distance to serve as markers, while at Little America the only reference point more than 4 miles distant was the low dome of Roosevelt Island, 30 miles away.

TABLE 11a presents all the data of the 6-hourly observations for Little America III, and under "Notes" such additional information as could be crowded into the limited space.

TABLE 11b presents similarly all the data of the 117 observations made at Seismic Station.

FREQUENCIES OF WEATHER CONDITIONS

TABLE 12a presents, for each of the four observation times for each month, the total number of times on which various weather conditions were observed. Sky cover and visibility have been arranged in six groups each, and the number of occurrences of various weather conditions is listed. In cases where two weather phenomena occurred together, only the one considered to be dominating has been listed; thus, for instance, the drizzle which accompanied fog at 1200 on March 16 does not appear, since the fog was the more important. Nor have any phenomena which are listed in "Notes," and did not occur at observation times, been included.

TABLE 12b presents the percentage frequencies of the values given in TABLE 12a, by months but without breakdown into observation times, and also the total number of occurrences and the percentage frequencies represented by these totals. The great predominance of overcast sky during the year, with cloudless skies second in frequency, shows the non-significance of determining "mean cloudiness" by days, and averaging that by months. Consequently, no "mean cloudiness" has been computed.

TABLE 12c presents, in Part I, summaries of cloudiness and visibility at Seismic Station, and in Part II, summaries of wind observations there.

INDIVIDUAL OBSERVATIONS, LITTLE AMERICA AND ITS SEISMIC STATION

TABLE 11a.—*Little America III, six-hourly observations*

FEBRUARY 1940*

Date	GMT	Pressure				Thermometers			Wind		Clouds						Vis. mi.	Weather	Notes
		Sta. (ins.)	S. L. mb.	3-hour char.	3-hour ins.	Dry °F.	Max. °F.	Min. °F.	Dir. from	Speed m. p. h.	Amt.	H	M	L	Dir. from	Clg. ft.			
February 1	01	29.521	1,003.6	8	.030	16.4	21	7	s	7	F	1	0	0	u	u	30	Cloudless	
	06	29.458	1,001.6	7	.025	13.9	17	11	ssw	12	10–	9	5	0	sw	-----	¾	Overcast	Lgt fog 0530–0545.
	12	29.380	998.9	8	.030	16.8	17	4	nne	10	10	----	5	0	sw	-----	10	Overcast	Wind to NE 0900.
	23	29.335	997.3	3	.000	18.0	22	12	s	18	10	----	----	5	sw	-----	2	Overcast	
February 2	06	29.359	998.2	3	.010	9.2	18	7	ssw	10	9	0	0	5	sw	-----	10	Cloudy	
	18	29.516	1,003.6	3	.040	10.2	12	7	s	8	10	----	----	5	sw	-----	4	Overcast	
	24	29.613	1,006.8	1	.020	17.3	18	8	sw	4	7	0	5	0	w	-----	20	Cloudy	Nearly calm since 2000.
February 3	06	29.654	1,008.2	2	.015	12.3	25	12	wsw	2	6	0	5	0	w	-----	20	Cloudy	Cleared 0200–0400.
	12	29.661	1,008.5	0	.000	8.8	17	4	ese	3	10	8	5	5	u	-----	30	Overcast	
	19	29.631	1,007.3	8	.005	23.6	24	8	nne	9	10	----	----	5	w	-----	5	Lgt snow, ocnl	
	24	29.635	1,007.4	8	.005	20.8	25	19	ese	15	10	----	----	5	w	-----	2	Overcast	
February 4	06	29.612	1,006.8	6	.020	9.0	22	7	ese	18	8	9	7	5	w	-----	2	Lgt drift, low	
	18	29.546	1,004.6	3	.000	7.2	10	5	ese	14	7	0	7	0	w	-----	30	Cloudy	Wind to S 2200.
February 5	01	29.518	1,003.6	6	.010	13.2	15	5	sw	4	6	9	5	0	w	-----	30	Cloudy	
	06	29.507	1,003.2	8	.010	10.2	13	7	s	2	F	0	5	5	u	u	30	Cloudless	Clear, warm sunshine.
	24	29.307	996.5	7	.025	8.4	9	−5	ese	14	7	9	2	5	w	-----	30	Cloudy	
February 6	06	29.292	995.9	6	.015	7.7	9	6	ese	15	2	8	5	5	w	u	30	Partly cloudy	
	12	29.288	995.8	3	.000	6.0	9	5	ese	25	10–	0	5	5	u	-----	½	Mdt drift, low	Clear to S.
	24	29.354	998.0	1	.010	10.0	10	3	ese	20	10	9	2	5	se	-----	4	Lgt drift, low	
February 7	06	29.318	996.8	3	.000	6.7	10	4	ese	12	10	----	7	5	se	-----	10	Overcast	Clouds variable.
	20	29.315	996.8	3	.000	2.6	7	−4	s	4	6	9	2	5	n	-----	10	Cloudy	
	24	29.329	997.2	2	.020	9.6	10	1	sse	11	10	----	5	2	ne	-----	10	Overcast	
February 8	06	29.354	998.0	2	.020	8.8	10	1	sse	8	6	8	5	0	ne	-----	10	Cloudy	
	24	29.396	999.5	9	.005	14.8	15	2	sw	12	1	2	0	0	nw	u	30	Partly cloudy	
February 9	06	29.365	998.4	7	.015	10.0	16	7	ssw	14	F	2	5	0	nw	u	30	Cloudless	
	12	29.343	997.8	7	.005	−2.2	10	−3	ssw	16	F	0	0	5	w	u	30	Cloudless	
	18	29.358	998.3	3	.010	−1.8	−2	−5	ssw	12	0	0	0	0	-----	u	30	Cloudless	
February 10	06	29.336	997.5	6	.015	11.0	12	−4	ssw	15	10	----	----	5	sw	-----	8	Lgt snow, ocnl	Clouds moved in 0400.
	20	29.319	996.8	9	.010	10.4	11	7	sw	7	10	----	----	5	sw	-----	5	Lgt snow, ocnl	
February 11	01	29.297	996.1	3	.010	7.2	10	6	ene	10	10	----	----	5	u	-----	5	Overcast	
	07	29.313	996.8	4	.000	5.8	7	4	se	14	10	----	----	5	u	-----	5	Overcast	
	24	29.353	998.0	3	.015	14.4	14	3	e	15	10	----	----	5	e	-----	10	Overcast	
February 12	06	29.395	997.4	-----	-----	14.6	15	14	e	15	10	----	----	5	e	-----	10	Overcast	Clear strip to E.
	12	29.446	1,001.2	2	.020	11.5	15	10	se	15	10	----	----	5	e	-----	10	Overcast	
	21	29.468	1,002.0	1	.010	11.9	13	9	s	4	F	0	7	0	u	u	30	Cloudless	
	24	29.477	1,002.2	3	.005	14.0	14	10	sse	3	F	0	7	0	u	u	30	Cloudless	Clouds on W horison.
February 13	06	29.465	1,001.8	3	.000	9.0	16	7	se	6	F	0	7	0	u	u	30	Cloudless	Clouds on W horizon.
	24	29.434	1,002.8	8	.005	9.8	10	−5	ese	12	F	8	7	5	u	u	30	Cloudless	
February 14	06	29.473	1,002.2	4	.010	4.0	10	3	e	18	7	0	0	5	w	-----	10	Lgt drift, low	
	24	29.627	1,007.2	3	.020	19.1	20	1	ene	10	10	----	----	5	w	-----	10	Overcast	
February 15	06	29.648	1,007.9	2	.025	19.1	19	18	ese	4	10	----	5	5	e	-----	10	Overcast	Ocnl. breaks to N.
	19	29.588	1,005.9	8	.030	18.3	19	12	ese	8	10	----	6	5	n	-----	10	Overcast	
	24	29.502	1,002.9	8	.045	24.3	24.3	17	ese	10	10	----	6	5	n	-----	10	Lgt snow, cont	Began 2200.
February 16	06	29.373	998.6	8	.060	20.6	24.3	19	ese	14	10	----	----	5	n	-----	10	Overcast	
	20	29.226	993.7	8	.045	6.8	21	1	ssw	5	10	----	----	5	ne	-----	5	Overcast	
	24	29.183	992.1	7	.030	9.2	9	7	ssw	4	10	----	----	5	n	-----	10	Overcast	
February 17	10	29.087	988.9	7	.030	4.2	13	3	ssw	12	10	6	0	5	w	-----	10	Overcast	
	20	29.053	987.9	7	.005	1.9	5	−1	ssw	18	8	6	7	0	sw	-----	10	Cloudy	
	24	29.029	987.0	7	.005	4.6	5	0	ssw	21	8	2	7	0	e	-----	10	Lgt drift, low	
February 18	06	29.002	986.1	4	.000	−1.7	5	−3	sw	16	10	2	7	5	sw	-----	10	Overcast	
	24	29.343	997.7	3	.090	7.0	8	−15	sw	2	5	8	7	5	sw	-----	10	Cloudy	
February 19	06	29.453	1,001.9	3	.060	3.9	12	3	ne	3	1	0	7	0	sw	u	10	Partly cloudy	Wind shifted 0300.
	12	29.579	1,005.8	3	.060	−5.3	4	−7	ene	2	8	0	7	0	sw	-----	10	Overcast	
	21	29.656	1,008.3	3	.035	14.0	14	−7	ssw	6	10	----	7	0	sw	-----	10	Overcast	Wind shifted 1800.
	24	29.673	1,008.8	3	.020	18.2	18	11	s	4	10	----	5	0	s	-----	10	Overcast	
February 20	06	29.662	1,008.4	8	.020	14.2	19	14	s	4	10	----	5	0	s	-----	10	Overcast	
	12	29.621	1,007.1	7	.030	12.7	15	10	ssw	3	10	----	----	5	u	-----	10	Lgt snow, ocnl	Snow just starting.
	21	29.489	1,002.5	6	.015	16.2	16	10	ene	8	10	----	----	5	u	-----	10	Lgt snow, cont	
	24	29.484	1,002.3	3	.000	16.9	17	14	e	6	10	----	3	0	u	8,000	10	Overcast	
February 21	06	29.435	1,000.7	3	.010	13.2	17	11	ene	4	10	----	3	0	w	8,000	10	Lgt snow, ocnl	Breaks to E and SE.
	12	29.406	999.8	3	.010	8.9	14	8	ene	9	10	----	6	7	w	8,000	10	Overcast	Breaks NE to S.
	21	29.398	999.6	3	.000	8.0	10	−2	e	23	10	----	----	5	w	8,000	½	Mdt drift, low	
	24	29.418	1,000.2	2	.025	11.0	11	6	e	23	10	----	----	5	u	1,500	½	Mdt drift, low	
February 22	06	29.472	1,002.0	3	.035	9.2	10	7	e	24	10	----	----	5	u	1,500	½	Mdt drift, low	
	12	29.512	1,003.4	3	.010	11.9	12	6	e	14	10	----	----	5	u	1,500	½	Mdt drift, low	Also ocnl snow.
	24	29.664	1,008.4	3	.040	22.7	29	10	w	5	10–	0	0	5	n	3,000	10	Overcast	
February 23	06	29.679	1,008.0	3	.000	22.9	24	21	e	6	10	----	----	5	n	3,000	10	Overcast	Brief sunshine 0300.
	12	29.655	1,008.1	8	.005	23.2	24	22	ene	6	10	----	----	5	n	3,000	10	Overcast	Ocnl snow flurries.
	24	29.575	1,005.4	7	.020	25.0	25	22	ene	5	10	----	----	5	n	4,000	15	Overcast	
February 24	06	29.554	1,004.7	8	.010	18.6	25	18	e	3	10–	0	0	5	n	4,000	10	Overcast	Lgt snow 0100–0300.
	18	29.616	1,007.0	3	.030	11.0	19	10	ssw	16	10	----	----	5	sw	2,000	10	Overcast	CU over sea.
	24	29.686	1,008.8	2	.050	6.0	11	5	sw	7	9	0	5	0	sw	u	8	Cloudy	Clrd 2200, AC from SW 2300.
February 25	06	29.705	1,009.9	3	.000	10.8	11	6	n	2	10	----	----	5	u	2,000	20	Overcast	Calm 0400–0530.
	12	29.698	1,009.6	2	.010	22.6	23	9	wsw	4	10	----	----	5	u	1,500	8	Lgt snow, ocnl	Snow wet: almost rain.
	24	29.585	1,005.7	8	.060	22.7	23	9	ene	12	10	----	----	6	u	800	½	Mdt snow, cont	Wind E after 1700.
February 26	06	29.407	999.7	8	.070	21.5	23	20	ese	18	X	----	----	----	-----	0	½	Mdt drift & snow	24-hour fall 4–9 cm.
	12	29.307	996.4	8	.050	20.0	22	19	se	23	10	----	----	5	n	1,500	1½	Lgt drift, low	Low scud from N.
	24	29.259	994.8	3	.000	10.1	22	9	ssw	11	10–	9	2	6	w	u	1½	Lgt drift, low	
February 27	06	29.259	994.8	3	.000	10.1	12	8	sw	6	9	1	3	6	w	5,000	15	Overcast	Wind abated 0200.
	24	29.398	999.5	3	.040	13.9	13.9	−2.8	ese	2	10	----	----	5	u	250	1¼	Lgt snow, fog	Cleared 0700; clouded 0900.
February 28	06	29.451	1,001.4	2	.040	−0.5	14.9	−1.1	sw	8	X	----	----	----	-----	0	1/35	Lgt snow, mdt fog	Clrd 0200–0500, 0700–0800.
	12	29.556	1,005.0	3	.045	1.9	1.9	−10.7	ssw	3	X	----	----	----	-----	0	1/35	Hvy fog, incsg	
	24	29.572	1,005.4	7	.015	10.6	10.7	−1.1	ese	14	10	----	----	5	u	4,000	3	Overcast	Clrd 150; lgt snow 1900.
February 29	06	29.479	1,002.3	7	.060	7.4	11.2	2.8	se	24	10	----	----	5	u	1,000	1/35	Hvy drift, high	Lgt drift by 0100.
	18	29.417	1,000.1	3	.000	12.7	12.9	6.2	se	8	10–	0	0	5	u	4,000	8	Overcast	
	24	29.478	1,002.3	2	.050	2.3	13.8	0.7	ssw	7	3	5	5	0	w	u	20	Partly cloudy	High clouds incsg. N & NW.

*Due to press of camp work, observations taken only as opportunity afforded, usually as near the regular time as possible.

Pressure readings are from mercurial barometers, first mounted on upright board in snow and later (after February 20) on wall in bunkhouse.

For the first few weeks, maximum and minimum thermometers were read to the nearest whole degree only. In a few cases where readings were not made at all, values have been obtained from the thermograph.

Wind velocities are either pure estimates, or from readings of hand anemometers (mines type).

No ceiling estimates were made during the first month, until enough pilot balloon ascents had been obtained to provide a rough basis for determining cloud heights.

TABLE 11a.—*Little America III, six-hourly observations*—Continued

MARCH 1940

Date	GMT	Pressure				Thermometers			Wind		Clouds						Vis. mi.	Weather	Notes
		Sta. (ins.)	S. L. mb.	3-hour char.	3-hour ins.	Dry °F.	Max. °F.	Min. °F.	Dir. from	Speed m. p. h.	Amt.	H	M	L	Dir. from	Clg. ft.			
March 1	06	29.495	1,003.0	2	.020	−4.8	6.7	−8.4	sse	10	4	5	5	6	nw	u	20	Partly cloudy	Clouds N & NW incsg.
	12	29.489	1,002.8	7	.005	−11.2	−1.8	−20.0	se	14	10−	5	5	6	nw	u	10	Overcast	Wind incsd after 0900.
	18	29.462	1,001.9	7	.025	−5.4	−4.9	−15.0	se	12	10−	0	0	5	nw	3,000	10	Overcast	
	24	29.453	1,001.5	7	.005	0.4	0.8	−6.1	se	12	10−	0	0	5	nw	4,000	10	Overcast	SW horizon clear.
March 2	06	29.451	1,001.4	3	.000	2.2	4.3	−1.3	se	10	10−	0	3	0	nw	6,000	5	Overcast	Faint 22° halo 0800.
	12	29.483	1,002.5	3	.000	−1.8	3.2	−5.2	se	13	10−	9	3	0	nw	6,000	4	Overcast	Breaks to E, CC visible.
	18	29.470	1,002.1	4	.000	−1.7	−1.0	−3.4	se	15	10−	0	3	6	nw	4,000	2	Lgt drift, low	Breaks to E larger.
	24	29.468	1,002.1	3	.000	−0.7	−0.1	−2.7	se	18	X					0	½	Mdt drift, high	Sky obscured by 2300.
March 3	06	29.452	1,001.4	5	.005	−0.2	0.2	−1.2	se	22	X					0	¼	Mdt drift, high	SC visible overhead.
	12	29.447	1,001.2	7	.005	1.3	1.8	−0.6	se	14	10−	0	0	5	nw	5,000	8	Overcast	Drift incsd to 1000, died.
	18	29.468	1,002.1	4	.015	−7.0	2.6	−8.1	s	8	10−	0	0	5	nw	5,000	15	Overcast	Wind dying; clear to SW.
	24	29.508	1,003.3	1	025	0.4	0.4	−9.6	s	6	10−	0	0	5	nw	5,000	20	Overcast	Clear to W.
March 4	06	29.508	1,003.3	3	.000	5.1	5.4	0.2	se	18	10			5	u	1,000	1	Lgt drift, low	Wind incsd 0300; drift 0500.
	12	29.531	1,004.2	2	.005	0.3	5.3	−0.6	ssw	8	10			5	u	1,000	2	Overcast	"Water sky" N & W.
	18	29.567	1,005.4	2	.015	3.9	4.0	0.3	s	6	10			5	u	300	¾	Lgt fog	Rime on S exposures.
	24	29.586	1,005.9	1	.025	8.3	9.1	3.1	s	6	9	9	7	0	nw	u	8	Cloudy	
March 5	06	29.630	1,007.4	2	020	7.9	10.1	4.2	s	8	10−	0	0	5	nw	4,000	15	Overcast	SC rolls & clear SW.
	12	29.677	1,008.0	3	.025	9.2	10.0	7.6	ese	14	10			5	u	500	¼	Ice crystals	Crystals made mdt fog.
	18	29.720	1,010.4	3	.020	7.3	10.1	7.2	ese	16	X					0	⅛	Mdt drift, high	Crystal fog continued.
	24	29.755	1,011.6	3	.015	10.3	10.3	6.8	ese	16	10			5	nw	1,500	5/16	Mdt drift, low	
March 6	06	29.772	1,012.2	3	.005	9.3	11.1	9.0	ese	15	10−	0	3	5	nw	2,500	6	Overcast	AC visible SW & W.
	12	29.775	1,012.3	3	.005	9.0	10.3	8.0	e	15	10−	0	0	5	nw	2,000	3	Overcast	Clear strip E & NE.
	18	29.757	1,011.7	8	.010	9.9	9.9	7.8	ese	8	10−	0	3	0	nw	5,000	15	Overcast	Breaks in clouds larger.
	24	29.753	1,011.7	3	.005	3.3	11.3	2.7	ssw	12	10			5	nw	5,000	5	Overcast	
March 7	06	29.731	1,011.0	3	.010	−11.6	3.3	−12.3	sw	12	9	9	4	0	nw	u	30	Cloudy	Sky clrg rapidly; colder.
	12	29.742	1,011.6	2	.000	−26.4	−10.2	−26.7	sw	12	1	0	7	0	nw	u	30	Partly cloudy	
	18	29.739	1,011.6	7	.005	−24.8	−24.8	−27.6	ssw	7	10			5	u	2,000	5	Overcast	Sun not visible.
	24	29.736	1,010.6	2	.005	−18.6	−18.3	−24.8	wsw	7	F	0	0	5	sw	u	30	Cloudless	Cleared 2300.
March 8	06	29.681	1,009.4	7	.035	−13.7	−13.7	−24.5	ssw	4	10−	0	3	0	w	6,000	5	Overcast	Clouds mvd rpdly from sw.
	12	29.610	1,006.9	8	.030	−6.9	−6.9	−14.2	ese	7	10			5	u	6,000	5	Overcast	
	18	29.428	1,000.7	8	.105	−0.3	0.0	−16.2	ese	23	X					0	1/16	Hvy drift, high	Lgt snow preceded wind.
	24	29.278	995.6	6	055	2.7	2.9	−1.2	e	33	X					0	0	Hvy drift, high	Mdt snow in lull to 4 mph.
March 9	06	29.295	996.1	4	.020	5.9	13.0	1.7	w	11	10			5	w	2,500	6	Overcast	Wind N 14 mph 0130-0400.
	12	29.395	999.6	3	.045	−10.4	7.0	−10.8	wsw	10	9	0	3	0	w	6,000	20	Cloudy	Stars visible in thin AC.
	18	28.417	1,000.5	3	.005	−19.6	−10.4	−21.3		0	F	0	5	0	sw	u	30	Cloudless	Narrow cloud bank on hrzns.
	24	29.435	1,001.0	3	.020	−11.6	−11.6	−19.6	sw	2	F	0	5	0	w	u	30	Cloudless	
March 10	06	29.449	1,001.2	3	.000	−16.9	−10.9	−17.6		0	2	4	5	0	nw	u	30	Partly cloudy	CS & AS at 2 levels, slow.
	12	29.442	1,001.3	3	.000	−15.5	−14.0	−23.4	ese	7	9	0	0	5	w	4,000	10	Ice crystals	
	18	29.388	999.2	6	.020	−5.9	−5.9	−16.9	ese	28	X					0	⅛	Hvy drift, high	Wind incsd after 1300.
	24	29.431	1,000.8	2	.010	5.2	5.8	−6.0	ese	24	X					0	1/16	Hvy drift, high	SC visible during lulls.
March 11	06	29.352	997.9	9	.055	9.2	9.7	4.3	ese	18	10	5	5	9	nw	2,000	⅛	Mdt drift, low	
	12	29.218	993.4	9	.065	6.5	9.7	3.3	ese	29	X					0	1/16	Hvy drift, high	Wind incsd 0700.
	18	29.109	989.6	6	.030	13.9	13.9	4.8	ese	27	X					0	⅛	Hvy drift, high	
	24	29.009	986.2	7	.065	16.4	20.0	8.7	ese	32	X					0	0	Hvy drift, high	
March 12	06	28.869	981.8	7	.065	16.1	17.9	12.7	ese	37	10−	0	7	5	e	1,500	1/16	Hvy drift, low	Wind abated 0500-0600.
	12	28.753	977.5	7	.060	18.4	18.4	13.1	ese	35	X					0	0	Hvy drift, high	
	18	28.688	975.3	6	.030	24.1	24.1	16.9	ese	24	10−	0	0	5	u	200	1/16	Hvy drift, low	Wind abated 1700.
	24	28.683	975.2	8	.005	25.1	25.9	22.6	ene	23	10−	9	9	6	ne	3,000	3	Lgt drift, low	
March 13	06	28.714	976.2	4	.015	25.0	25.2	23.7	nne	17	10−	0	9	6	ne	2,000	5	Overcast	Ocnl snow showers 0500-0600.
	12	28.808	979.4	3	.025	9.2	25.8	8.7	ne	8	9	0	5	0	ne	4,000	20	Cloudy	Lgt sleet since 0600.
	18	28.868	981.4	3	.040	25.1	25.8	9.2	ne	17	10−	0	5	5	n	4,000	20	Cloudy	
	24	28.911	982.8	1	.015	26.3	26.8	22.3	ne	20	10−	0	7	6	n	4,000	10	Lgt drift, low	
March 14	00	28.967	984.6	2	.035	27.1	27.5	23.5	n	16	9	0	7	9	n	4,000	20	Overcast	Mdt snow since 2400.
	12	29.112	989.6	3	.065	25.0	27.1	20.9	n	14	10		7	0	u	4,000	10	Overcast	Sky variable.
	18	29.257	994.7	3	.080	23.9	25.5	21.5	nnw	10	10		2	0	u	4,000	10	Overcast	
	24	29.283	995.6	1	020	26.0	26.4	22.3	nne	11	10			5	nw	4,000	20	Overcast	
March 15	06	29.244	994.2	8	.025	26.5	28.4	21.4	ne	18	10			5	w	1,000	10	Overcast	Lgt drizzle 0100-0400; glaze.
	12	29.171	991.6	9	030	26.3	26.9	25.3	e	26	10			5	u	1,000	6	Lgt drift, low	Wind incsd, drift began 1000.
	18	29.040	987.2	8	.080	23.5	26.7	23.4	e	29	10			5	n	1,000	1/16	Hvy drift, low	
	24	28.792	978.8	8	.140	24.8	24.9	21.9	e	35	X					0	0	Hvy drift, high	
March 16	06	28.738	976.8	4	.035	29.3	29.3	24.8	n	20	10			5	u	500	½	Milky	
	12	28.794	978.8	3	.015	29.3	29.4	28.4	n	10	10			5	u	500	½	Lgt fog, drizzle	Glaze formed.
	18	28.784	977.9	9	.025	28.7	29.5	26.9	nne	11	10			5	n	1,000	¾	Lgt snow, cont	Sun dimly visible.
	24	28.781	978.3	3	.000	29.9	30.1	28.3	n	12	10			5	u	1,000	1	Overcast	Mdt snow since 1800.
March 17	06	28.835	980.1	3	.005	27.2	30.2	27.1	nw	19	10−	0	4	5	nw	1,000	1½	Mdt snow shower	Clouds variable.
	12	28.919	983.1	3	.035	26.2	28.3	23.8	nw	17	10			5	u	1,000	10	Overcast	
	18	29.073	988.5	3	.150	6.1	26.2	5.4	wnw	8	6	0	5	0	nw	4,000	30	Cloudy	AC to S, AS to N.
	24	29.255	994.7	3	.070	9.2	9.2	4.8	ese	6	10			5	u	2,000	10	Overcast	
March 18	06	29.250	994.4	8	.005	19.2	19.2	8.1	ese	15	10			5	u	1,000	5	Lgt snow, cont	Snow began 0400.
	12	29.191	992.3	7	.020	28.3	28.6	17.9	ne	16	10			5	u	800	2	Lgt snow, cont	
	18	29.078	988.5	9	.065	24.3	28.4	21.9	e	19	10			5	nw	1,000	4	Overcast	No snow 1600-2000.
	24	28.926	983.3	8	.085	26.1	27.0	22.3	e	22	10			5	u	800	1½	Lgt snow, cont	
March 19	06	28.792	978.7	6	.040	27.8	28.2	25.1	ene	8	10			5	u	800	4	Overcast	No snow 0530-0800.
	12	28.828	979.9	3	.005	27.5	28.2	25.1	n	5	10			5	u	800	8	Lgt snow, cont	0.6 inch loose snow.
	18	28.861	981.3	3	.005	9.3	27.6	8.8	ssw	9	10−	4	3	0	w	5,000	15	Overcast	0.3 inch more snow.
	24	28.848	980.8	9	.005	8.2	9.3	1.4	s	11	10−	0	3	5	w	1,500	10	Overcast	
March 20	06	28.842	980.7	3	.000	0.4	8.8	−1.0	ssw	15	10			5	u	750	½	Mdt drift, low	Milky 0100-0300.
	12	28.852	981.0	3	.000	−1.6	0.4	−2.5	ssw	18	10			5	u	1,500	3	Overcast	
	18	28.842	980.7	3	.000	0.1	0.2	−2.5	sw	19	10−	0	7	5	n	3,000	6	Overcast	W horizon clear.
	24	28.915	983.3	3	.030	−13.8	0.0	−15.8	sw	17	F	8	4	5	s	u	20	Cloudless	Ice crystals, halo 2300.
March 21	06	28.989	985.9	3	.050	−19.5	−12.8	−19.5	sw	7	F	5	4	0	s	u	30	Cloudless	SW wind died 0430.
	12	29.003	986.5	3	.005	−27.0	−19.1	−29.6	wsw	3	F	0	7	0	sw	u	30	Cloudless	Stars seen for first time.
	18	29.019	987.0	1	.010	−27.8	−26.7	−31.1		0	0	0	0	0		u	30	Cloudless	Auroral arcs.
	24	29.078	988.7	2	.035	−10.0	−5.3	−30.3	w	9	4	0	5	0	w	u	30	Partly cloudy	
March 22	06	29.153	991.3	2	.065	−10.3	−8.4	−14.5	wsw	6	9	0	5	5	w	5,000	30	Cloudy	Brilliant red sunset 0530.
	12	29.200	993.0	2	.025	−17.5	−7.3	−18.6	e	7	5	0	5	5	w	5,000	30	Cloudy	Moon in clouds, stars vsbl.
	18	29.112	989.8	7	.060	2.1	2.1	−18.6	e	17	10			5	u	2,500	10	Overcast	
	24	28.983	985.4	8	.065	8.6	8.7	2.0	e	24	10			5	u	2,000	1	Lgt drift, low	Wind E 25 at 2030.
March 23	06	28.813	979.7	8	.060	9.7	9.7	4.9	ese	24	10			5	u	500	½	Mdt drift, low	Wind incsg.
	12	28.807	979.4	4	.010	7.5	11.4	5.9	ese	24	5	0	7	0	nw	2,000	5/16	Mdt drift, low	
	18	28.960	984.6	3	.060	5.9	7.7	2.4	se	19	7	0	7	0	nw	2,000	3	Lgt drift, low	Sun shining.
	24	29.114	989.9	3	.065	3.6	7.0	2.7	ese	17	10−	0	3	0	nw	2,000	6	Overcast	Ocnl flurry of drift.
March 24	06	29.201	992.9	3	.055	2.5	3.7	−1.5	e	14	10		3	0	nw	7,000	10	Overcast	
	12	29.312	996.7	3	.060	1.0	2.9	−1.2	ne	4	10		3	0	u	7,000	10	Overcast	Sky variable.
	18	29.404	999.9	3	.025	−12.4	1.0	−12.5	s	5	F	0	7	0	nw	u	30	Cloudless	
	24	29.403	999.9	8	.005	−10.6	−10.0	−20.1	s	11	10−	0	7	0	u	5,000	10	Overcast	

TABLE 11a.—*Little America III, six-hourly observations*—Continued

MARCH 1940—Continued

Date	GMT	Pressure: Sta. (ins.)	Pressure: S. L. mb.	Pressure: 3-hour char.	Pressure: 3-hour ins.	Thermometers: Dry °F.	Thermometers: Max. °F.	Thermometers: Min. °F.	Wind: Dir. from	Wind: Speed m. p. h.	Clouds: Amt.	Clouds: H	Clouds: M	Clouds: L	Clouds: Dir. from	Clouds: Clg. ft.	Vis. mi.	Weather	Notes
March 25	06	29.391	999.5	8	.010	−12.6	−0.0	−18.8	s	11	10	----	7	0	u	5,000	10	Overcast	
	12	29.341	997.8	7	.025	−3.0	−2.7	−12.7	sse	25	10	----	7	0	u	5,000	½	Mdt drift, low	Drift began 1000.
	18	29.300	996.3	7	.010	−1.6	−1.6	−4.3	se	25	X	----	----	----	----	0	⅛e	Hvy drift, high	New snow also.
	24	29.215	993.5	7	.025	1.3	1.3	−2.6	e	27	X	----	----	----	----	0	⅛s	Hvy drift, high	
March 26	06	29.167	991.6	7	.025	2.1	2.3	0.3	e	24	10	----	----	5	u	5,000	⅛e	Mdt drift, low	Drift abated 0400.
	12	29.100	989.2	9	.050	26.0	26.3	2.0	nne	24	10	----	----	5	u	5,000	¾	Lgt snow, cont	Snow began in NE wind.
	18	29.039	987.2	8	.015	25.9	26.3	24.1	n	12	10	----	----	5	u	5,000	1	Lgt snow, cont	Snow flakes large, wet.
	24	29.123	990.4	3	.055	−3.9	26.1	−4.7	wsw	14	9	0	7	5	w	u	30	Cloudy	Snow ended with W wind.
March 27	06	29.227	993.9	3	.045	−20.9	−3.9	−21.4	ssw	11	0	0	0	0	------	u	30	Cloudless	No clouds at 0500 sunset.
	12	29.294	996.5	2	.035	−31.9	−20.7	−32.3	sw	10	F	0	7	0	nw	u	30	Cloudless	22° lunar halo; aurorae.
	18	29.350	998.4	3	.015	−33.6	−30.4	−34.5	wsw	9	4	0	7	0	nw	u	20	Partly cloudy	
	24	29.394	999.8	3	.025	−27.8	−25.0	−33.6	sw	13	8	9	7	0	nw	u	5	Ice crystals	Halo complex; rime.
March 28	06	29.438	1,001.3	2	.030	−26.9	−24.7	−28.2	ssw	13	10	----	----	5	nw	5,000	2	Overcast	
	12	29.460	1,001.9	2	.010	−15.8	−15.2	−27.0	s	10	10	----	----	5	u	5,000	1½	Lgt snow, cont	Began 0800.
	18	29.448	1,001.4	8	.005	−11.6	−10.8	−15.9	ssw	11	10	----	----	5	u	5,000	1½	Overcast	
	24	29.438	1,001.1	8	.010	−10.5	−9.8	−12.9	wsw	16	10	----	----	5	u	5,000	¾	Lgt snow, cont	Began 2000.
March 29	06	29.426	1,000.7	2	.000	−13.0	−10.3	−13.7	ssw	16	10	----	----	5	s	5,000	½	Lgt snow, cont	Ocnl drift.
	12	29.428	1,000.8	7	.010	−9.3	−9.3	−13.8	ssw	15	10	----	----	5	nw	5,000	¾	Lgt snow, cont	Moon faintly visible.
	18	29.426	1,000.7	3	.000	−5.0	−5.0	−12.1	s	19	10	----	----	5	u	5,000	1	Lgt snow, cont	
	24	29.471	1,001.2	3	.025	−8.4	−3.9	−9.4	ese	7	8	0	5	0	nw	5,000	20	Cloudy	
March 30	06	29.490	1,002.9	8	.010	−17.6	−7.8	−27.1	se	9	6	9	9	5	nw	5,000	20	Cloudy	Wind SE–N–W–N–E 0300.
	12	29.429	1,000.8	8	.030	−8.9	−8.8	−17.8	ese	27	3	0	5	0	nw	u	½	Mdt drift, low	Wind incsd after 0700.
	18	29.128	990.5	8	.100	−3.7	−3.7	−11.5	ese	35	X	----	----	----	----	0	0	Hvy drift, high	Wind 40–45 mph 2000.
	24	29.035	987.1	7	.050	2.6	2.9	−5.0	ese	25	X	----	----	----	----	0	⅛s	Hvy drift, high	
March 31	06	29.063	988.0	3	.010	16.2	17.3	2.6	n	4	10−	0	3	0	w	7,000	3	Overcast	Lgt fog, rime 0400.
	12	29.025	986.7	9	.025	19.7	23.3	14.0	ne	25	10	----	----	5	u	3,000	1	Lgt snow, cont	
	18	28.886	982.0	6	.035	20.5	20.9	14.1	ne	38	X	----	----	----	----	0	0	Hvy drift, high	
	24	28.919	983.4	3	.025	24.0	24.0	12.4	ne	23	10	----	----	5	u	3,000	¾	Lgt snow, ocnl	

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April 1	06	28.957	984.3	4	.010	27.5	27.8	22.0	nne	30	10	----	----	5	u	3,000	½	Mdt snow, cont	
	12	28.974	985.0	0	.005	25.0	27.5	24.1	ne	30	10	----	----	5	u	3,000	⅛	Hvy drift, low	Snow ended about 1000.
	18	28.935	983.6	5	.005	24.2	25.0	18.2	ne	35	10	----	----	5	u	3,000	⅛e	Hvy drift, low	
	24	29.037	987.1	3	.065	22.9	24.2	22.8	nne	44	10−	----	9	6	s	200	0	Hvy drift, low	AC-AS seen during lulls.
April 2	06	29.192	992.4	2	.060	22.4	24.1	21.4	nne	36	10	----	----	6	u	200	⅛e	Hvy drift, low	
	12	29.339	997.4	3	.070	20.1	22.4	19.1	ne	22	10	----	----	5	u	3,000	¾	Mdt drft, low	
	18	29.428	1,000.7	1	.030	1.0	20.1	0.2	ese	11	F	1	0	5	s	u	30	Cloudless	Wind died gradually.
	24	29.498	1,003.0	3	.035	0.5	8.0	−3.1	e	15	0	0	0	0	------	u	30	Cloudless	
April 3	06	29.501	1,003.1	3	.000	−1.6	1.3	−2.5	ese	16	0	0	0	0	------	u	30	Cloudless	SC over sea to distant N.
	12	29.491	1,002.7	3	.020	−0.8	0.0	−2.8	e	16	0	0	0	0	------	u	30	Cloudless	Many aurorae.
	18	29.408	1,000.0	3	.030	−0.1	2.3	−2.1	e	14	8	9	1	0	w	u	30	Cloudy	CC & tufted CI from S or E.
	24	29.330	997.4	7	.035	−6.4	2.9	−6.9	e	7	F	1	5	0	ne	u	30	Cloudless	
April 4	06	29.272	995.4	6	.015	−4.5	−1.1	−14.6	nne	4	10	----	----	5	nw	200	⅛e	Mdt fog, incsg	Low clouds 0400; fog 0530.
	12	29.223	993.6	9	.025	8.4	8.8	−4.5	e	6	10	----	----	5	u	500	¾	Lgt snow, cont	Snow began after 1000.
	18	29.189	992.4	9	.010	12.3	13.1	6.5	n	15	10	----	----	5	u	3,000	4	Lgt snow, cont	
	24	29.234	994.5	2	.020	11.5	13.0	10.3	ne	10	10−	0	0	5	n	3,000	4	Overcast	Snow ended 2000.
April 5	06	29.293	996.0	3	.040	11.4	14.3	9.2	ne	11	10	----	----	5	n	3,000	4	Overcast	
	12	29.376	998.9	3	.025	1.7	11.5	−2.0	e	7	10	----	----	5	n	3,000	4	Overcast	Wind shifting.
	18	29.406	999.9	3	.020	3.2	3.6	−2.6	ese	14	10	----	----	5	n	3,000	4	Overcast	Wind increased slowly.
	24	29.432	1,000.8	1	.010	2.3	3.7	−1.7	se	16	10	----	----	6	n	2,500	1½	Lgt snow, ocnl	
April 6	06	29.397	999.6	8	.015	0.7	2.8	0.2	se	18	10	----	----	5	u	2,500	1½	Lgt drift, low	
	12	29.363	999.5	7	.010	1.3	2.1	−0.1	se	15	3	----	----	5	u	4,000	4	Partly cloudy	
	18	29.317	997.0	6	.015	−4.4	1.3	−6.9	ese	15	10	----	3	0	nw	6,000	10	Lgt snow, ocnl	Lgt snow & drift most of day.
	24	29.264	995.1	7	.035	0.0	0.0	−5.9	se	13	10	----	----	5	u	3,000	1½	Lgt snow, ocnl	
April 7	06	29.193	992.6	7	.030	1.5	1.7	−0.3	se	12	10	----	7	8	n	7,000	1½	Lgt snow, ocnl	
	12	29.153	991.2	7	.015	−2.7	4.5	−3.7	ssw	16	10	----	----	5	u	3,000	1½	Overcast	Wind shifted 0900–1200, colder.
	18	29.194	992.8	4	.030	−13.6	−2.8	−14.6	sw	24	10−	0	3	0	u	7,000	½	Mdt drift, low	
	24	29.383	999.6	3	.135	−34.7	−13.6	−36.2	sw	26	F	0	6	0	u	u	⅛	Mdt drift, low	Faint colorless 22° halo.
April 8	06	29.472	1,002.6	2	.030	−41.5	−34.3	−43.0	sw	10	0	0	0	0	------	u	30	Cloudless	
	12	29.520	1,004.3	1	.010	−44.5	−38.0	−44.5	sw	2	0	0	0	0	------	u	20	Cloudless	Stars bright, faint aurora.
	18	29.555	1,005.4	1	.020	−40.7	−36.0	−44.5	e	9	F	0	7	0	u	u	10	Cloudless	
	24	29.576	1,006.1	2	.015	−35.4	−34.3	−42.7	e	13	1	0	3	0	w	u	5	Partly cloudy	SC over sea to N.
April 9	06	29.572	1,005.9	8	.010	−35.9	−34.4	−37.1	e	11	F	0	6	0	w	u	5	Cloudless	Small cloud bank distant W.
	12	29.568	1,005.9	4	.000	−43.5	−32.8	−44.4	s	4	F	0	6	0	u	u	3	Cloudless	
	18	29.518	1,004.1	7	.030	−36.4	−34.9	−45.9	s	15	10−	0	7	6	nw	6,000	2	Overcast	Lrg banks AC-SC apprd. 1700.
	24	29.455	1,002.0	9	.020	−43.4	−33.0	−44.2	ene	6	5	0	0	5	w	6,000	3	Cloudy	Sky variable.
April 10	06	29.315	997.0	6	.075	−19.3	−16.3	−45.3	w	13	10−	0	0	5	w	3,000	10	Overcast	Wind light and variable.
	12	29.284	996.2	9	.015	−41.4	−19.2	−44.6	ese	3	0	0	0	0	------	u	30	Cloudless	Sky cleared rapidly 0800.
	18	29.211	993.6	7	.030	−37.5	−36.0	−51.7	se	9	10	----	2	6	nw	6,000	10	Overcast	
	24	29.196	993.2	3	.000	−43.2	−31.0	−46.3	s	3	10−	9	1	0	ne	u	5	Overcast	
April 11	06	29.149	991.6	6	.015	−50.0	−32.3	−50.0	sse	4	F	0	4	0	s	u	20	Cloudless	Clouds dissipated 0200.
	12	29.062	988.6	7	.040	−45.8	−43.4	−53.1	wsw	6	F	0	6	0	s	u	30	Cloudless	Cloud banks all horizons.
	18	28.896	983.1	8	.070	−41.3	−39.0	−48.0	ssw	4	10−	9	1	0	sw	u	4	Overcast	Thin broken AS from SW.
	24	28.801	979.6	7	.030	−36.7	−35.5	−42.0	e	11	10−	9	1	0	nw	u	8	Overcast	
April 12	06	28.786	979.3	3	.005	−45.7	−35.1	−46.6	ssw	3	F	9	0	0	sw	u	15	Cloudless	Sky clrd 0400 lvg AC-CC.
	12	28.723	977.1	7	.025	−34.6	−33.3	−47.0	ssw	25	0	0	0	0	------	u	⅛	Mdt drift, low	Wind incsd 1000, drift 1100.
	18	28.715	976.8	3	.000	−37.6	−30.8	−47.9	ene	2	F	9	4	0	s	u	20	Cloudless	2 AC bands mvg rpdly from S.
	24	28.782	979.0	0	.025	−40.7	−36.0	−42.8	e	2	F	0	4	0	s	u	30	Cloudless	
April 13	06	28.869	982.2	2	.030	−45.9	−39.0	−48.0	se	6	F	0	4	0	s	u	30	Cloudless	
	12	28.900	983.3	2	.010	−47.6	−41.6	−49.4	------	0	0	0	0	0	------	u	20	Cloudless	
	18	28.861	982.0	8	.020	−51.9	−44.0	−52.4	ssw	8	0	0	0	0	------	u	30	Cloudless	
	24	28.861	982.0	3	.000	−50.0	−47.0	−53.0	ssw	5	0	0	0	0	------	u	30	Cloudless	
April 14	06	28.886	982.8	2	.030	−50.5	−45.7	−53.0	se	5	0	0	0	0	------	u	30	Cloudless	
	12	28.985	986.0	3	.050	−42.5	−41.0	−50.5	e	12	0	0	0	0	------	u	30	Cloudless	Clouds formed in E 1300.
	18	29.095	989.5	4	.025	−25.5	−24.0	−42.9	e	11	10	0	0	5	u	3,000	5	Overcast	
	24	29.186	992.5	3	.045	−19.6	−18.8	−25.8	e	9	10	----	----	5	u	3,000	5	Overcast	
April 15	06	29.193	992.8	3	.000	−13.6	−13.2	−20.0	e	9	10	----	----	5	u	1,000	2	Lgt snow, ocnl	Snow began 0500.
	12	29.194	992.8	3	.000	−13.5	−11.8	−14.3	e	15	10	----	----	5	u	1,000	3	Lgt snow, ocnl	
	18	29.197	992.9	3	.000	−16.6	−12.0	−17.4	e	12	10	----	----	5	u	1,000	2	Hazy	
	24	29.184	992.4	8	.005	−15.9	−14.3	−17.3	e	6	10	----	----	5	u	500	⅝	Lgt fog, incsg	

TABLE 11a.—*Little America III, six-hourly observations*—Continued

APRIL 1940—Continued

Date	GMT	Pressure				Thermometers			Wind		Clouds						Vis. mi.	Weather	Notes
		Sta. (ins.)	S. L. mb.	3-hour char.	3-hour ins.	Dry °F.	Max. °F.	Min. °F.	Dir. from	Speed m. p. h.	Amt.	H	M	L	Dir. from	Clg. ft.			
April 16	06	29.093	989.4	7	.050	−18.5	−14.1	−19.7	ese	2	0	0	0	0	------	u	⅜	Mdt fog, incsg	Half of sky obscured by fog
	12	28.883	982.3	3	.070	−16.0	−15.2	−28.1	ssw	10	10	----	----	5	u	1,000	6	Overcast	Clds moved in rapidly 0900.
	18	28.708	976.4	6	.050	−18.2	−15.0	−18.3	ssw	17	10−	0	3	0	s	3,000	½	Mdt drift, low	
	24	28.756	978.0	2	.025	−14.0	−14.0	−18.3	ssw	13	10−	0	3	0	w	5,000	10	Overcast	
April 17	06	28.808	979.8	1	.025	−17.4	−14.0	−18.4	sse	4	4	0	7	5	w	u	10	Partly cloudy	
	12	28.802	979.4	9	.020	−6.3	−6.3	−20.9	ese	20	10	----	----	5	w	1,500	5/16	Mdt drift, low	
	18	28.707	975.9	7	.005	16.5	16.6	−7.6	e	34	X	----	----	----	------	0	0	Hvy drift, high	
	24	28.762	977.8	2	.025	18.0	18.0	15.0	e	34	10	----	----	5	ne	1,500	5/16	Mdt drift, low	
April 18	06	28.802	979.1	1	.025	19.4	19.6	14.7	ene	26	X	----	----	----	------	0	0	Mdt snow, cont	Also heavy drift, low.
	12	29.795	978.9	1	.005	19.8	20.4	17.3	e	24	7	0	0	5	w	1,000	½	Mdt drift, low	Wet snow 0400 to 1000.
	18	28.743	977.2	9	.025	17.1	19.8	12.8	ese	23	10−	9	7	5	nw	3,000	3	Overcast	SC to N, E, S; AS above; AC&CC.
	24	28.730	977.7	3	.000	12.5	18.8	10.2	e	15	3	2	7	8	n	u	8	Partly cloudy	
April 19	06	28.718	976.4	6	.020	7.4	14.4	5.8	ese	18	9	2	7	5	nw	1,000	15	Cloudy	
	12	28.736	977.1	3	.015	0.2	7.9	−1.2	e	14	4	2	7	5	w	u	10	Partly cloudy	
	18	28.744	977.4	3	.000	4.0	5.8	.1	ese	14	10−	2	7	5	ne	3,000	10	Overcast	
	24	28.747	977.5	3	.000	−2.8	4.1	−9.5	e	12	10−	2	5	5	ne	5,500	10	Overcast	
April 20	06	28.757	977.9	3	.000	−3.5	1.0	−4.8	ene	5	9	0	7	0	e	5,500	20	Cloudy	
	12	28.814	979.9	3	.020	−11.0	−2.1	−11.9	sse	4	10−	0	7	0	e	5,000	10	Overcast	
	18	28.877	982.0	2	.040	−9.8	−8.9	−13.8	ssw	5	10	----	3	0	se	5,000	½	Mdt fog	
	24	28.970	985.1	3	.050	−9.8	−7.0	−10.3	sw	7	10−	----	3	0	n	8,000	6	Overcast	
April 21	06	29.014	986.5	3	.015	−2.8	−1.6	−10.6	s	2	10	----	2	0	n	8,000	4	Overcast	
	12	29.064	988.5	3	.025	−21.1	4.0	−21.5	wsw	5	F	0	1	0	n	u	8	Cloudless	Lgt snow 0700–1000.
	18	29.074	988.9	3	.005	−29.1	−21.0	−31.3	wsw	2	10−	0	1	6	nw	8,000	10	Overcast	Narrow band clear sky N & E.
	24	29.089	989.4	0	.020	−28.6	−25.0	−31.5	ssw	2	10	----	2	0	u	500	1	Lgt fog	Visibility decreased 2200.
April 22	06	29.104	989.8	3	.005	−24.0	−21.9	−28.6	ese	3	10	----	2	0	u	500	¾	Lgt fog	
	12	29.100	989.6	3	.005	−16.7	−15.6	−24.0	e	4	10	----	2	0	u	500	¾	Lgt fog	Rime on E & SE exposures.
	18	29.070	988.5	8	.010	−9.9	−9.4	−16.7	ene	5	10	----	2	0	u	500	¾	Lgt fog	Some rime 1½ inch thick.
	24	29.069	988.5	3	.000	−6.9	−4.7	−10.5	e	5	10	----	----	5	u	1,000	1¼	Overcast	
April 23	06	29.085	989.0	3	.015	−9.6	−3.6	−10.9	e	3	10	----	----	5	n	1,800	1½	Overcast	Clouds lightened 0400–0700.
	12	29.090	989.1	3	.010	3.5	4.2	−10.6	nne	4	10	----	----	5	n	1,500	1	Lgt snow, lgt fog	
	18	29.122	990.3	3	.010	−6.2	6.1	−16.6	e	8	10	----	----	5	n	1,500	¼	Mdt fog	
	24	29.126	990.6	3	.005	−14.9	−3.8	−15.7	e	17	1	1	0	0	nw	u	5/16	Mdt drift, low	E wind incsd 2000.
April 24	06	29.097	989.4	8	.020	−9.2	−9.0	−16.8	e	25	7	0	2	0	n	1,000	5/16	Mdt drift, low	
	12	29.055	988.0	7	.015	−6.9	−6.2	−10.7	e	29	X	----	----	----	------	0	0	Hvy drift, high	Full moon dimly visible.
	18	29.007	986.4	7	.020	−7.4	−5.4	−8.4	ese	30	X	----	----	----	------	0	1/32	Hvy drift, high	
	24	28.908	983.1	9	.050	−18.5	−7.3	−19.7	sse	7	3	1	4	0	nw	u	6	Partly cloudy	
April 25	06	28.762	978.2	8	.075	−23.9	−16.2	−26.1	s	20	10−	0	2	0	n	800	½	Mdt drift, low	
	12	28.585	972.3	7	.080	−23.9	−22.0	−25.1	ssw	31	X	----	----	----	------	0	1/16	Hvy drift, high	
	18	28.464	968.1	8	.060	−26.1	−23.0	−27.3	s	32	X	----	----	----	------	0	1/32	Hvy drift, high	
	24	28.437	967.1	8	.005	−15.9	−15.8	−26.5	ssw	13	10	----	----	5	u	1,000	5/8	Overcast	
April 26	06	28.520	969.9	3	.060	−13.8	−13.1	−17.8	s	7	10	----	2	0	n	7,500	1¼	Overcast	
	12	29.639	974.0	2	.065	−8.5	−8.3	−15.2	ssw	18	10	----	----	5	u	3,000	1½	Overcast	
	18	28.769	978.4	3	.080	−7.1	−6.3	−8.7	s	14	10	----	----	5	u	3,000	½	Snow grains	
	24	28.887	982.3	2	.085	−9.4	1.3	−9.6	ssw	8	10−	9	3	0	e	u	6	Overcast	
April 27	06	28.945	984.2	3	.030	4.4	4.8	−9.7	se	16	10−	0	3	0	e	4,500	10	Overcast	
	12	29.024	987.0	2	.030	−9.4	5.0	−10.0	s	4	9	2	1	0	se	u	10	Cloudy	Faint 22° lunar halo 1000.
	28	29.047	987.8	4	.005	−14.7	−8.0	−15.1	ssw	5	10−	2	1	0	s	u	10	Overcast	
	24	29.037	987.4	3	.000	−8.5	−8.3	−17.6	ssw	19	10−	0	6	5	e	5,000	10	Overcast	
April 28	06	29.071	988.5	3	.020	−7.6	−6.5	−9.0	ssw	8	10−	0	7	5	e	2,000	10	Overcast	
	12	29.106	989.8	3	.005	−7.8	−5.8	−8.8	w	3	10	----	2	0	e	5,000	5	Snow grains	Intermittent 0800 to 2200.
	18	29.084	989.0	4	.000	−7.2	−6.2	−9.2	ese	5	10	----	2	0	e	5,000	5	Snow grains	Total fall 1/16 inch.
	24	29.078	988.8	3	.000	−5.6	−5.1	−11.0	e	7	10−	9	6	5	e	2,000	6	Overcast	
April 29	06	29.074	988.7	3	.000	−6.4	−5.0	−8.0	e	12	10−	9	6	5	e	3,000	10	Overcast	
	12	29.072	988.6	8	.005	−4.5	−2.8	−12.3	e	16	10	----	----	5	e	3,000	10	Ice crystals	
	18	28.968	985.0	8	.050	−1.7	−0.2	−6.1	e	9	10−	0	3	0	e	5,000	10	Overcast	
	24	28.839	980.7	7	.065	−7.4	−0.4	−8.7	se	9	10−	0	3	0	se	5,000	15	Overcast	
April 30	06	28.707	976.4	8	.060	−21.9	−7.0	−24.4	s	2	1	0	1	0	se	u	15	Partly cloudy	Cleared 0200.
	12	28.628	973.8	7	.040	−22.7	−21.5	−24.4	sse	3	10	----	2	0	se	2,000	2	Overcast	Clouded 0800.
	18	28.526	970.1	7	.025	−17.9	−17.9	−29.4	sse	3	X	----	----	----	------	0	¼	Mdt fog	Rime on SE exposures.
	24	28.496	969.2	9	.010	−23.8	−16.7	−24.5	wsw	3	10	----	3	0	e	3,000	5	Overcast	

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May 1	06	28.475	967.9	3	.000	−34.5	−23.2	−35.9	sw	2	0	0	0	0	------	u	10	Cloudless	
	12	28.454	968.0	6	.020	−40.4	−31.5	−42.7	s.	2	0	0	0	0	------	u	10	Cloudless	
	18	28.470	968.5	3	.000	−45.6	−40.3	−46.4	ssw	10	1	0	3	0	u	u	10	Partly cloudy	
	24	28.501	969.6	2	.010	−45.5	−45.2	−45.9	s	3	9	0	1	0	e	u	10	Cloudy	
May 2	06	28.534	970.7	3	.020	−44.9	−44.8	−45.5	ssw	2	1	0	1	0	s	u	10	Partly cloudy	
	12	28.555	971.4	3	.020	−45.4	−44.2	−46.7	se	2	10	----	2	0	u	3,000	4	Overcast	
	18	28.625	973.9	2	.040	−46.1	−45.4	−46.1	e	5	3	0	2	0	u	u	1½	Partly cloudy	
	24	28.726	977.1	3	.060	−26.8	−25.8	−46.3	sse	9	10	----	----	5	u	2,000	2	Overcast	
May 3	06	28.865	981.8	3	.060	−25.9	−21.6	−26.9	ssw	6	10	----	----	5	u	2,000	2	Overcast	
	12	28.978	985.7	3	.060	−35.4	−24.5	−35.4	sw	5	10	----	2	0	u	2,000	2	Overcast	
	18	29.057	988.6	2	.055	−47.9	−33.3	−48.6	wsw	3	4	0	0	5	u	u	5	Partly cloudy	
	24	29.086	989.6	2	.020	−49.3	−47.1	−49.8	wsw	3	4	2	1	0	w	u	10	Partly cloudy	
May 4	06	29.045	987.4	8	.020	−48.3	−47.2	−50.1	sse	2	2	5	1	0	w	u	15	Partly cloudy	
	12	28.960	985.0	7	.065	−26.9	−26.8	−49.1	se	8	10	----	2	0	u	5,000	4	Overcast	
	18	28.838	980.9	7	.020	−25.9	−25.3	−28.5	ese	4	10	----	2	0	u	5,000	4	Overcast	
	24	28.818	980.2	7	.010	−27.0	−24.7	−27.7	ese	17	10	----	----	5	u	3,000	5/8	Lgt drift, low	
May 5	06	28.823	980.5	3	.000	−33.0	−25.2	−33.0	ssw	10	7	0	2	0	w	3,000	8	Cloudy	
	12	28.858	981.7	4	.030	−32.4	−29.0	−34.4	s	8	7	0	2	0	u	3,000	10	Snow grains	
	18	28.878	982.4	2	.005	−39.2	−28.7	−44.2	s	6	1	0	7	0	nw	u	15	Partly cloudy	
	24	28.877	982.4	3	.005	−45.4	−39.2	−46.7	s	4	10−	0	7	0	w	5,000	8	Overcast	
May 6	06	28.876	982.5	6	.010	−52.1	−44.8	−52.1	s	6	1	0	7	0	w	u	10	Partly cloudy	
	12	28.876	982.6	3	.000	−56.7	−51.3	−56.7	ssw	3	1	0	7	0	u	u	15	Partly cloudy	
	18	28.852	981.7	8	.010	−57.7	−56.1	−59.6	s	3	F	0	7	0	w	u	20	Cloudless	
	24	28.834	981.1	8	.010	−58.9	−55.1	−59.2	s	2	7	0	7	0	ne	5,000	5	Cloudy	
May 7	06	28.797	979.9	8	.015	−52.6	−50.6	−59.3	s	2	8	0	7	0	ne	5,000	5	Cloudy	
	12	28.760	977.6	8	.010	−55.7	−51.2	−57.7	ene	5	9	0	7	0	w	4,000	3	Cloudy	
	18	28.716	977.1	7	.025	−48.7	−47.7	−57.3	e	9	10−	7	7	0	u	u	1½	Overcast	Clouds thin.
	24	28.689	976.2	3	.000	−51.6	−46.5	−56.4	ssw	2	10−	0	7	5	ne	5,000	1¼	Overcast	
May 8	06	28.670	975.4	8	.010	−42.3	−41.3	−55.1	sw	2	10−	7	0	5	ne	3,000	1½	Snow grains	
	12	28.618	973.6	8	.040	−40.2	−33.9	−42.3	ssw	20	10	----	----	5	ne	3,000	1½	Lgt drift, low	
	18	28.562	971.6	8	.005	−43.5	−40.2	−44.3	ssw	5	10	----	1	0	u	5,000	1½	Overcast	
	24	28.559	971.6	3	.000	−40.6	−38.9	−44.4	ese	29	X	----	----	----	------	0	0	Hvy drift, high	

TABLE 11a.—*Little America III, six-hourly observations*—Continued

MAY 1940—Continued

Date	GMT	Pressure				Thermometers			Wind		Clouds						Vis. mi.	Weather	Notes
		Sta. (ins.)	S. L. mb.	3-hour char.	3-hour ins.	Dry °F.	Max. °F.	Min. °F.	Dir. from	Speed m. p. h.	Amt.	H	M	L	Dir. from	Clg. ft.			
May 9	06	28.670	975.5	3	.060	−41.3	−35.8	−41.3	ese	26	X					0	⅛s	Hvy drift, high	
	12	28.729	977.4	3	.020	−45.8	−39.7	−47.9	e	20	X					0	5/16	Mdt drift, high	
	18	28.775	979.0	4	.010	−48.8	−42.7	−48.9	e	19	F	0	4	0	u	u	⅛s	Hvy drift, low	
	24	28.787	979.4	4	.025	−52.6	−49.3	−52.6	se	13	F	0	4	0	u	u	5	Cloudless	
May 10	06	28.819	981.8	3	.020	−55.0	−49.5	−60.2	s	7	X					0	⅛	Mdt fog, incsg	
	12	28.906	984.1	3	.025	−53.4	−48.1	−56.4	s	7	0	0	0	0		u	⅛	Mdt fog, low	
	18	28.999	986.8	3	.050	−60.1	−51.1	−60.3	s	5	F	0	4	0	u	u	20	Cloudless	
	24	29.094	990.0	3	.060	−64.4	−58.3	−64.5	e	3	F	0	4	0	u	u	10	Cloudless	
May 11	06	29.165	992.4	3	.025	−65.8		−65.8	s	2	0	0	0	0		u	⅝	Lgt fog, low	
	12	29.184	992.9	1	.010	−58.2	−57.7	−71.3	ene	7	0	0	0	0		u	1½	Hazy	
	18	29.157	991.9	8	.010	−44.6	−43.0	−58.9	ese	15	10		1	0	u	2,000	½s	Overcast	
	24	29.185	992.6	3	.000	−34.6	−34.5	−44.8	e	17	10			5	u	2,000	2	Overcast	
May 12	06	29.175	992.3	4	.000	−34.5	−30.7	−36.4	e	8	10			5	u	2,000	2	Overcast	
	12	29.179	992.5	2	.000	−37.2		−38.1	ese	8	10			5	u	2,000	¾	Lgt fog, low	
	18	29.213	993.9	2	.025	−47.7	−37.0	−50.5	s	6	10		2	0	u	5,000	1½	Overcast	
	24	29.287	996.4	7	.060	−47.7	−38.1	−49.5	e	8	10		2	0	u	2,500	2	Overcast	
May 13	06	29.423	1,000.9	3	.080	−37.1	−37.1	−47.7	e	4	10		2	0	u	2,500	2	Overcast	
	12	29.544	1,005.1	3	.040	−39.9	−33.1	−41.3	sse	4	4	0	2	0	u	2,000	2	Partly cloudy	
	18	29.610	1,007.3	2	.015	−44.6	−39.4	−46.5	nne	4	0	0	0	0		u	30	Cloudless	
	24	29.572	1,006.1	9	.025	−47.7	−40.5	−48.7	e	5	2	0	2	0	ne	u	30	Partly cloudy	
May 14	06	29.482	1,002.9	8	.040	−49.7	−41.5	−51.4	s	4	3	0	5	0	ne	u	20	Partly cloudy	
	12	29.484	1,003.1	3	.010	−53.9	−48.9	−55.6	s	4	2	0	5	0	ne	u	10	Partly cloudy	
	18	29.516	1,004.4	2	.015	−59.9	−53.0	−60.4	ssw	7	0	0	0	0		u	15	Cloudless	
	24	29.544	1,005.3	3	.030	−59.5	−59.4	−62.1	ssw	2	0	0	0	0		u	20	Cloudless	
May 15	06	29.601	1,007.2	3	.020	−58.7	−58.1	−60.1	ssw	2	0	0	0	0		u	20	Cloudless	
	12	29.677	1,009.9	3	.040	−63.2	−58.7	−64.4	s	4	0	0	0	0		u	10	Cloudless	
	18	29.718	1,011.2	1	.015	−60.1		−63.2	sse	6	0	0	0	0		u	1¼	Lgt fog, low	
	24	29.724	1,011.4	2	.010	−54.9	−53.8	−61.2	se	9	0	0	0	0		u	2	Hazy	
May 16	06	29.687	1,010.4	6	.010	−48.7	−48.7	−57.5	sse	13	0	0	0	0		u	2	Hazy	
	12	29.702	1,010.5	2	.010	−55.4	−46.3	−57.0	sse	8	0	0	0	0		u	2	Hazy	
	18	29.715	1,010.9	2	.010	−47.5	−40.5	−55.4	s	11	0	0	0	0		u	5	Cloudless	
	24	29.713	1,010.7	2	.015	−37.7	−37.3	−47.5	se	23	0	0	0	0		u	⅛s	Hvy drift, low	
May 17	06	29.645	1,008.4	6	.035	−38.7	−37.7	−40.6	ese	30	X					0	⅛s	Hvy drift, high	
	12	29.405	1,000.1	8	.140	−25.9	−24.2	−39.4	ese	42	X					0	0	Hvy drift, high	
	18	29.067	987.9	7	.120	−12.8	−12.8	−25.9	ese	39	X					0	0	Hvy drift, high	
	24	28.904	982.9	7	.055	−9.4	−9.4	−13.9	ese	29	X					0	⅛s	Hvy drift, high	
May 18	06	28.891	982.2	4	.000	22.1	22.1	−10.5	n	22	X					0	⅛s	Hvy drift, high	
	12	28.809	979.4	8	.080	16.2	22.1	15.1	nne	23	X					0	⅛s	Hvy drift, high	
	18	28.681	975.2	7	.075	13.5	16.4	2.3	ese	17	X					0	1½	Lgt snow, cont	
	24	28.611	972.6	8	.040	15.9	15.9	12.4	e	21	10−	0	½	0	nw	4,000	1½	Lgt drift, low	
May 19	06	28.451	968.2	8	.100	17.3	21.2	14.4	ene	5	10		2	0	nw	4,000	15	Overcast	Occasional snow crystals.
	12	28.358	964.1	6	.010	4.0	17.4	3.3	ssw	19	10−	0	2	0	ne	4,000	10	Lgt drift, low	Drift only few inches deep.
	18	28.514	969.6	3	.075	−1.7	4.0	−4.6	wnw	7	10		2	0	u	4,000	¾	Lgt snow, cont	
	24	28.575	971.5	2	.035	8.4	12.1	−3.0	wsw	17	10		2	0	nw	4,000	¾	Lgt snow, cont	Snow very light.
May 20	06	28.756	977.7	3	.120	−3.0	8.4	−3.1	w	7	10−	0	2	0	ne	4,000	3	Lgt snow, cont	
	12	28.920	983.4	3	.060	−6.6	3.0	−6.8	ssw	13	6	0	2	0	ne	6,000	20	Cloudy	
	18	28.934	983.8	1	.010	0.9	8.8	−6.6	wnw	19	10		2	0	u	4,000	2	Lgt drift, low	
	24	28.881	982.0	7	.020	−4.1	1.0	−5.9	ne	13	10−	0	7	0	n	6,000	10	Overcast	Therms. to new shelter.
May 21	06	28.856	982.0	8	.005	−7.8	−1.3	−13.5	e	8	10		2	0	u	6,000	10	Snow crystals	
	12	28.799	979.4	8	.020	−7.4	−6.2	−9.0	e	11	10−	0	2	0	nw	6,000	10	Overcast	
	18	28.755	977.9	8	.025	−16.8	−7.3	−18.8	ssw	10	10−	0	1	0	sw	6,000	10	Overcast	Clouds thin, with breaks.
	24	28.747	977.8	6	.005	−23.7	−15.2	−25.6	ssw	9	8	0	7	0	w	6,000	20	Cloudy	Pillar beneath sun.
May 22	06	28.779	978.9	4	.005	−29.9	−20.9	−33.0	ssw	9	F	0	7	0	w	u	20	Cloudless	Clrd 0300; halo 0400–0500.
	12	28.839	980.8	3	.030	−19.6	−19.3	−31.5	ssw	7	10		7	0	nw	6,000	5	Overcast	Sky variable after 0800.
	18	28.895	982.8	3	.035	−29.9	−14.9	−29.9	sw	5	10	0	1	0	u	u	10	Overcast	Lunar corona; some rime.
	24	28.976	985.7	2	.030	−37.2	−29.9	−41.0	s	2	8	0	1	0	u	u	1½	Lgt fog, low	Lunar corona; rime deposited.
May 23	06	29.037	987.5	3	.020	−14.5	−14.2	−42.6	n	5	10		7	0	sw	6,000	1½	Overcast	
	12	29.114	989.7	3	.030	−13.6	−13.6	−28.5	nne	8	10−	0	7	0	e	6,000	2	Snow grains	
	18	29.144	991.0	4	.030	−12.7	−6.2	−20.0	wnw	8	7	0	1	6	n	6,000	2	Cloudy	Lunar corona; sky variable.
	24	29.282	996.1	1	.040	−41.7	−12.7	−45.3		0	F	0	7	0	w	u	20	Cloudless	
May 24	06	29.289	996.4	3	.000	−44.1		−49.9	ene	6	0	0	0	0		u	20	Cloudless	
	12	29.310	997.1	2	.020	−36.4		−45.4	se	7	10		1	0	nw	4,000	¾	Overcast	
	18	29.371	999.1	2	.035	−32.0	−22.0	−36.4	s	10	10	0	2	0	nw	4,000	1	Overcast	
	24	29.467	1,002.5	2	.050	−43.3	−33.0	−43.3	ssw	13	1	0	2	0	w	u	1	Partly cloudy	Lunar corona; clds on horizon.
May 25	06	29.492	1,003.4	3	.010	−52.2	−45.5	−55.3	s	4	10		7	0	nw	4,000	1	Overcast	
	12	29.479	1,002.8	9	.020	−40.2	−37.4	−52.2	se	11	0	0	0	0		u	2	Cloudless	Fog on horizon.
	18	29.405	1,000.2	7	.040	−30.1	−29.1	−42.7	e	18	9	7	0	0	n	u	⅝	Lgt drift, low	
	24	29.450	1,001.7	8	.025	−26.6	−24.0	−31.0	ese	20	4	0	2	0	ne	u	½	Mdt drift, low	
May 26	06	29.226	993.9	7	.070	−18.6	−18.5	−27.0	ese	33	0	0	0	0		u	½s	Hvy drift, low	
	12	29.086	989.2	8	.095	−17.4	−16.8	−29.4	ese	37	0	0	0	0		u	⅛s	Hvy drift, low	
	18	28.832	980.5	7	.135	−16.3	−15.3	−22.7	ese	33	X					0	⅛s	Hvy drift, high	
	24	28.684	975.5	8	.080	−9.8	−9.7	−16.4	ese	36	X					0	0	Hvy drift, high	
May 27	06	28.580	971.8	8	.040	−2.9	−2.9	−17.2	ese	37	X					0	0	Hvy drift, high	
	12	28.498	969.1	8	.040	4.2	4.5	−4.1	ese	26	X					0	0	Hvy drift, high	
	18	28.474	968.1	6	.010	9.2	10.0	3.9	se	16	10		2	0	u	5,000	½	Mdt drift, low	
	24	28.576	971.8	4	.045	−5.5	9.3	−5.9	ssw	11	10		2	0	u	5,000	¾	Lgt snow, cont	
May 28	06	28.755	978.0	3	.100	−20.7	−5.5	−20.7	sw	12	4	0	2	0	u	u	¾	Partly cloudy	
	12	28.975	985.8	3	.100	−23.8	−20.1	−23.8	w	8	4	0	2	0	u	u	¾	Partly cloudy	
	18	29.024	987.2	2	.020	−25.1	−23.4	−35.1	ese	11	7	0	1	0	u	5,000	2	Cloudy	
	24	28.921	983.4	6	.030	−0.2	−0.2	−27.0	e	19	10		2	0	u	5,000	1	Overcast	
May 29	06	28.965	984.8	3	.020	−0.7	1.6	−2.6	ese	15	10		2	0	u	6,000	1	Snow grains	
	12	29.055	988.1	2	.025	−15.7	0.1	−16.6	ese	18	0	0	0	0		u	¾	Lgt drift, low	
	18	29.182	992.4	2	.060	−28.6	−15.5	−29.1	se	14	10−	0	2	0	u	5,000	¾	Lgt drift, low	
	24	29.236	994.6	3	.000	−43.1	−28.6	−43.1	sw	12	F	0	7	0	w	u	20	Cloudless	
May 30	06	29.201	993.3	9	.020	−38.8	−24.6	−43.1	s	10	10		2	0	u	6,000	10	Overcast	
	12	29.128	990.8	8	.020	−32.0	−26.0	−38.8	se	8	10−	0	2	0	u	6,000	10	Overcast	
	18	29.044	987.8	7	.025	−28.0	−28.0	−37.4	ese	16	10		2	0	ne	6,000	1½	Lgt drift, low	
	24	28.975	985.5	6	.020	−29.6	−27.6	−30.0	ese	19	7	0	1	5	nw	6,000	2	Lgt drift, low	
May 31	06	28.914	983.5	8	.055	−33.0	−29.6	−35.3	ese	16	9	0	2	5	nw	6,000	¾	Lgt snow, cont	
	12	28.812	980.1	8	.040	−30.0	−12.1	−34.3	ese	12	10		2	5	u	6,000	¾	Lgt snow, cont	
	18	28.754	978.2	7	.030	−44.8	−28.9	−44.9	ssw	3	F	0	1	0	nw	u	15	Cloudless	
	24	28.735	977.7	3	.000	−56.9	−44.8	−57.5	w	3	F	0	7	0	sw	u	20	Cloudless	

TABLE 11a.—*Little America III, six-hourly observations*—Continued

JUNE 1940

Date	GMT	Pressure				Thermometers			Wind		Clouds							Weather	Notes
		Sta. (ins.)	S. L. mb.	3-hour char.	3-hour ins.	Dry °F.	Max. °F.	Min. °F.	Dir. from	Speed m. p. h.	Amt.	H	M	L	Dir. from	Cig. ft.	Vis. mi.		
June 1	06	28.758	978.6	3	.020	−58.7	−53.9	−59.0	sw	4	3	0	7	0	sw	u	4	Partly cloudy	
	12	28.920	984.1	3	.100	−61.1	−57.9	−62.2	sw	12	7	0	2	0	u	6,000	4	Cloudy	
	18	29.155	991.9	3	.095	−57.1	−56.9	−61.2	w	4	F	0	2	0	u	u	10	Cloudless	
	24	29.272	995.8	2	.050	−50.2	−41.5	−61.1	nne	2	0	0	0	0	-----	u	10	Cloudless	
June 2	06	29.300	996.6	3	.000	−25.0	−25.0	−56.8	nnw	5	10	----	2	0	u	6,000	8	Overcast	
	12	29.255	995.4	7	.020	−23.7	−22.9	−31.0	n	4	10	----	2	0	u	6,000	7	Overcast	
	18	29.170	991.9	7	.035	−17.7	−17.7	−23.7	nnw	6	10	----	----	5	u	4,000	10	Overcast	
	24	29.119	990.4	7	.030	−28.7	−17.4	−29.1	e	16	10	----	----	5	u	4,000	4	Lgt drift, low	Drift only few inches high.
June 3	06	29.093	989.5	8	.010	−27.8	−27.5	−28.8	e	5	10	----	----	5	u	4,000	6	Overcast	
	12	29.090	989.5	3	.000	−32.3	−27.3	−33.4	-----	0	10	----	----	5	u	4,000	8	Lgt snow, cont	Snow very light.
	18	29.085	989.5	3	.000	−46.3	−31.4	−49.3	-----	0	0	0	0	0	-----	u	10	Cloudless	Clrd 1400, sharp temp drop.
	24	29.102	990.2	3	.010	−56.1	−44.6	−57.0	sw	4	F	0	7	0	w	u	10	Cloudless	
June 4	06	29.081	989.2	3	.020	−40.0	−34.4	−57.8	ne	2	10	----	7	0	u	4,000	8	Overcast	
	12	29.036	987.4	6	.020	−19.0	−17.7	−40.0	ne	20	10	----	7	0	u	2,000	1	Lgt drift, low	
	18	28.994	986.1	7	.010	−15.6	−15.6	−19.5	ne	23	X	----	----	----	-----	0	½	Mdt drift, high	
	24	29.009	986.6	3	.000	−14.6	−13.2	−16.5	ne	23	X	----	----	----	-----	0	⅛s	Hvy drift, high	
June 5	06	29.050	988.0	2	.030	−27.9	−14.6	−27.9	ene	23	X	----	----	----	-----	0	⅛s	Hvy drift, high	
	12	29.093	989.6	2	.020	−29.6	−27.5	−33.8	ese	17	10	----	7	0	u	4,000	1½	Lgt drift, low	
	18	29.127	990.9	1	.025	−45.6	−28.8	−45.6	s	5	0	0	0	0	-----	u	25	Cloudless	
	24	29.170	992.3	1	.030	−53.9	−45.6	−55.0	ssw	4	0	0	0	0	-----	u	20	Cloudless	
June 6	06	29.177	992.7	2	.000	−55.9	−48.7	−56.0	ssw	13	0	0	0	0	-----	u	8	Cloudless	
	12	29.262	995.6	3	.040	−61.9	−54.9	−62.9	sw	9	0	0	0	0	-----	u	20	Cloudless	
	18	29.322	997.7	1	.020	−58.0	−57.0	−63.3	sw	11	0	0	0	0	-----	u	20	Cloudless	
	24	29.401	1,000.4	2	.035	−57.0	−56.2	−58.5	sw	3	F	0	7	0	w	u	20	Cloudless	
June 7	06	29.431	1,001.6	2	.020	−55.9	−55.9	−57.8	ssw	3	F	0	7	0	w	u	20	Cloudless	
	12	29.425	1,000.9	3	.000	−30.0	−30.0	−57.4	e	3	10	----	2	0	u	6,000	10	Overcast	Sky clouded at 0900.
	18	29.386	999.7	9	.015	−31.6	−22.1	−31.7	ese	16	F	0	7	0	u	u	5	Cloudless	Sky cleared at 2000.
	24	29.300	996.6	7	.060	−27.9	−27.9	−34.5	ese	26	F	0	7	0	u	u	½	Mdt drift, low	Stars & aurorae overhead.
June 8	06	29.156	991.6	8	.080	−21.7	−21.0	−28.5	e	35	X	----	----	----	-----	0	⅛	Mdt drift, high	
	12	28.959	984.8	8	.100	−20.5	−20.0	−28.7	ese	41	X	----	----	----	-----	0	⅛	Mdt drift, high	
	18	28.755	977.9	8	.090	−13.1	−12.3	−20.9	se	38	X	----	----	----	-----	0	⅛	Mdt drift, high	
	24	28.693	975.8	6	.010	−9.8	−9.8	−14.0	ese	29	X	----	----	----	-----	0	⅛s	Hvy drift, high	
June 9	06	28.614	973.3	8	.060	−20.0	−9.8	−20.0	ese	25	X	----	----	----	-----	0	⅛s	Hvy drift, high	
	12	28.584	972.1	3	.000	−7.5	−2.2	−20.0	se	16	10	----	2	0	u	6,000	½	Mdt drift, low	
	18	28.648	974.1	3	.025	−1.9	4.0	−8.5	ne	21	10	----	2	0	u	6,000	½	Mdt drift, low	
	24	28.769	978.4	2	.065	−10.3	−1.9	−10.8	nne	10	10	----	2	0	u	6,000	2	Overcast	
June 10	06	28.956	985.0	3	.120	−33.6	−10.3	−33.6	w	11	4	0	2	0	u	u	6	Partly cloudy	
	12	29.073	988.9	1	.035	−25.0	−25.0	−37.7	ene	9	10−	0	2	0	u	6,000	8	Overcast	
	18	29.224	994.0	3	.080	−34.5	−11.1	−34.5	w	8	0	0	0	0	-----	u	15	Cloudless	
	24	29.379	999.5	2	.060	−44.4	−34.5	−44.4	s	3	F	0	1	0	u	u	15	Cloudless	
June 11	06	29.417	1,000.7	3	.020	−37.5	−37.5	−45.8	e	7	F	0	7	0	u	u	20	Cloudless	
	12	29.375	999.2	6	.020	−32.7	−31.9	−38.3	ese	32	X	----	----	----	-----	0	⅛s	Hvy drift, high	
	18	29.260	995.2	7	.030	−18.2	−17.7	−32.7	ese	44	X	----	----	----	-----	0	0	Hvy drift, high	
	24	29.157	991.5	7	.065	−11.4	−11.4	−19.6	se	44	X	----	----	----	-----	0	0	Hvy drift, high	
June 12	06	29.026	987.0	7	.070	−7.6	−6.2	−11.5	se	40	X	----	----	----	-----	0	0	Hvy drift, high	
	12	28.918	983.4	7	.025	−5.5	−4.9	−8.4	ese	26	X	----	----	----	-----	0	½	Mdt drift, high	
	18	28.837	980.6	6	.015	−7.4	−4.9	−7.8	ene	9	6	0	1	0	u	u	4	Cloudy	
	24	28.959	985.0	2	.060	−21.9	−7.3	−21.9	w	13	0	0	0	0	-----	u	20	Cloudless	Ice crystals from NW 20–23
June 13	06	29.133	990.9	2	.065	−29.9	−21.2	−30.0	w	7	0	0	0	0	-----	u	20	Ice crystals	Crystals began 0200; halo.
	12	29.234	994.4	2	.040	−33.5	−28.7	−36.6	w	3	2	0	7	0	u	u	20	Partly cloudy	
	18	29.215	993.8	8	.010	−39.1	−30.7	−39.8	sse	9	F	0	7	0	u	u	20	Cloudless	
	24	29.090	989.4	9	.070	−24.6	−24.6	−39.4	ese	35	X	----	----	----	-----	0	⅛s	Hvy drift, high	
June 14	06	28.863	981.6	8	.080	−7.6	−7.6	−32.1	se	45	X	----	----	----	-----	0	0	Hvy drift, high	
	12	28.691	976.0	8	.080	−1.0	−1.0	−19.1	ese	42	X	----	----	----	-----	0	0	Hvy drift, high	
	18	28.620	973.0	6	.020	1.2	1.6	−19.6	ese	34	X	----	----	----	-----	0	⅛s	Hvy drift, high	
	24	28.662	974.6	3	.020	3.4	3.4	−4.0	ese	28	10	----	----	5	u	3,000	⅛s	Hvy drift, low	
June 15	06	28.727	976.7	3	.080	6.0	6.2	−1.1	ese	26	10	----	----	5	u	3,000	⅛s	Hvy drift, low	
	12	28.869	981.5	2	.060	4.5	7.5	2.9	ese	18	10−	0	7	0	e	4,000	2½	Lgt drift, low	
	18	28.943	984.4	2	.020	−15.6	4.6	−15.9	s	8	3	0	7	0	w	u	15	Partly cloudy	
	24	28.975	985.5	7	.015	−22.8	−1.7	−24.6	s	13	4	0	7	0	e	u	20	Partly cloudy	
June 16	06	28.989	986.0	3	.000	−28.3	−21.3	−28.3	ssw	13	7	0	7	0	ne	6,000	20	Cloudy	22° lunar halo.
	12	28.957	984.9	2	.000	−30.0	−26.5	−30.2	ssw	18	9	0	7	0	se	6,000	15	Cloudy	
	18	28.924	983.8	7	.005	−25.9	−24.4	−30.0	ssw	20	10	7	7	0	u	6,000	10	Overcast	High thin overcast, lwr AC.
	24	29.000	986.4	2	.040	−26.7	−22.2	−26.8	ssw	14	10	7	7	0	s	6,000	15	Overcast	
June 17	06	29.094	898.6	2	.030	−33.3	−25.5	−33.4	ssw	10	10	7	7	0	se	6,000	10	Overcast	22° lunar halo 0900.
	12	29.151	991.6	3	.005	−35.6	−33.3	−35.8	s	12	10	7	0	0	u	u	10	Overcast	
	18	29.191	993.0	2	.020	−39.5	−33.8	−39.8	ssw	6	10−	7	0	0	u	6,000	20	Overcast	22° lunar halo.
	24	29.214	993.8	3	.010	−44.3	−38.6	−44.5	s	2	1	0	5	0	s	u	20	Partly cloudy	
June 18	06	29.211	993.8	3	.000	−51.1	−44.6	−51.1	sw	3	0	0	0	0	-----	u	30	Cloudless	
	12	29.227	994.4	3	.000	−56.0	−50.8	−56.0	sw	2	0	0	0	0	-----	u	30	Cloudless	
	18	29.228	994.5	3	.000	−58.5	−55.1	−58.7	ssw	5	0	0	0	0	-----	u	30	Cloudless	
	24	29.238	994.8	3	.005	−58.0	−57.9	−60.0	ssw	4	4	5	2	0	w	u	20	Partly cloudy	
June 19	06	29.219	994.2	8	.005	−57.3	−57.3	−58.2	ssw	3	2	5	0	0	w	u	20	Partly cloudy	Faint lunar corona.
	12	29.164	992.2	7	.025	−56.1	−56.1	−59.2	ssw	4	2	6	0	0	w	u	20	Partly cloudy	Faint 22° lunar halo.
	18	29.134	991.3	3	.000	−54.8	−51.4	−56.3	s	3	3	6	0	0	u	u	2½	Hazy	Faint 22° lunar halo.
	24	29.147	991.5	6	.010	−39.1	−31.9	−55.0	ssw	23	3	6	0	0	w	u	15	Partly cloudy	
June 20	06	29.167	992.1	3	.005	−40.5	−37.0	−43.4	sw	5	10	7	0	0	w	u	15	Overcast	
	12	29.125	990.9	9	.030	−48.4	−37.9	−48.4	ssw	4	2	6	0	0	w	u	15	Partly cloudy	
	18	29.023	987.5	7	.045	−49.8	−48.4	−53.8	ssw	3	10−	0	7	0	u	4,000	15	Overcast	
	24	28.905	983.3	7	.060	−42.2	−42.2	−49.8	sse	9	10−	0	2	0	w	u	15	Overcast	
June 21	06	28.774	978.6	7	.070	−17.6	−17.6	−42.7	se	24	X	----	----	----	-----	0	¼	Mdt drift, high	
	12	28.754	977.9	8	.015	−14.9	−13.5	−19.2	ese	21	10	----	----	2	0	u	2	Lgt drift, low	
	18	28.746	977.5	3	.000	−9.1	−6.5	−15.6	ese	21	10	----	----	2	0	u	2	Lgt drift, low	
	24	28.709	976.4	9	.025	−14.6	−8.3	−18.9	ese	13	8	8	7	0	nw	u	10	Lgt drift, low	Drift only few inches deep.
June 22	06	28.579	971.9	7	.075	−6.6	−4.1	−15.3	ese	15	10−	0	0	5	se	4,000	10	Overcast	
	12	28.418	962.2	6	.030	−1.5	4.0	−7.2	ese	17	10	----	----	5	se	4,000	10	Overcast	
	18	28.384	965.2	3	.000	−5.0	−1.1	−8.8	ese	10	10	----	----	5	u	4,000	20	Overcast	
	24	28.361	964.3	7	.020	−2.3	−1.0	−5.0	e	20	10	----	----	5	u	4,000	15	Lgt drift, low	
June 23	06	28.402	965.8	3	.000	−4.1	−1.9	−11.7	ene	17	10	----	----	5	u	4,000	½	Mdt drift, low	
	12	28.459	967.7	2	.020	−8.1	−3.9	−10.1	ese	16	10	----	----	5	u	4,000	10	Lgt drift, low	
	18	28.456	967.7	3	.000	−11.8	−8.1	−13.8	ese	20	10	----	1	0	u	7,000	10	Lgt drift, low	
	24	28.509	970.4	3	.030	−12.2	−8.7	−14.5	e	15	10	----	1	0	u	7,000	10	Overcast	
June 24	06	28.588	972.2	2	.040	−12.4	−11.7	−16.9	ese	11	10	----	7	0	u	6,000	15	Overcast	
	12	28.613	973.2	3	.010	−18.5	−9.4	−22.5	ese	15	10−	0	7	0	u	6,000	5	Lgt drift, low	Drift very light.
	18	28.632	973.7	3	.010	−9.5	−9.4	−20.1	e	15	10	----	1	0	u	6,000	5	Lgt snow, cont	
	24	28.662	974.7	1	.020	−7.6	−5.5	−10.6	e	14	10	----	1	0	u	6,000	5	Lgt snow, cont	

TABLE 11a.—*Little America III, six-hourly observations*—Continued

JUNE 1940—Continued

Date	GMT	Pressure: Sta. (ins.)	Pressure: S. L. mb.	3-hour: char.	3-hour: ins.	Thermometers: Dry °F.	Thermometers: Max. °F.	Thermometers: Min. °F.	Wind: Dir. from	Wind: Speed m. p. h.	Clouds: Amt.	Clouds: H	Clouds: M	Clouds: L	Clouds: Dir. from	Clouds: Clg. ft.	Clouds: Vis. mi.	Weather	Notes
June 25	06	28.667	974.8	3	.000	−1.9	−1.9	−8.2	ne	26	10	----	1	0	u	6,000	½	Mdt drift, low	
	12	28.651	974.3	3	.000	−5.2	−1.9	−6.3	e	26	10	----	1	0	u	6,000	½	Mdt drift, low	
	18	28.636	973.9	3	.000	−10.2	−3.1	−12.7	e	25	X	----	----	----	----	0	½s	Hvy drift, high	
	24	28.711	976.4	1	.035	−6.6	0.8	−11.4	ese	23	X	----	----	----	----	0	¼	Mdt drift, high	
June 26	06	28.662	974.6	8	.020	0.3	0.3	−8.6	se	31	X	----	----	----	----	0	¼	Mdt drift, high	
	12	28.644	974.0	7	.010	0.7	4.0	−3.8	ese	39	X	----	----	----	----	0	¼s	Hvy drift, high	
	18	28.744	977.6	1	.020	−14.3	0.7	−14.4	ese	14	10−	0	7	0	nw	u	2	Lgt drift, low	
	24	28.896	982.8	3	.080	−18.0	−14.1	−18.3	ese	16	8	4	0	5	e	5,000	10	Cloudy	
June 27	06	29.057	988.0	2	.100	−0.7	−0.1	−21.7	nne	19	10−	0	0	5	u	6,000	8	Lgt drift, low	
	12	29.227	992.9	3	.045	−13.4	−1.0	−17.7	ne	13	4	0	7	0	e	u	10	Partly cloudy	
	18	29.149	991.2	9	.040	−11.1	−9.4	−21.2	ese	26	X	----	----	----	----	0	¼	Mdt drift, high	
	24	28.964	984.8	7	.085	2.2	2.2	−16.1	se	26	X	----	----	----	----	0	¼	Mdt drift, high	
June 28	06	28.901	982.8	7	.040	−3.7	2.0	−5.8	ese	20	10	----	7	0	u	6,000	6	Lgt drift, low	
	12	28.882	982.1	3	.000	−7.3	−3.9	−7.9	sw	8	10	----	7	0	u	6,000	15	Overcast	
	18	28.894	982.7	3	.005	−14.8	−6.8	−16.1	w	16	10	----	7	0	u	6,000	15	Overcast	
	24	28.942	984.4	4	.035	−21.7	−1.6	−22.2	w	12	3	0	7	0	w	u	25	Partly cloudy	
June 29	06	29.001	986.5	3	.020	−32.4	−20.1	−34.2	w	5	4	0	7	0	u	u	20	Partly cloudy	
	12	28.981	985.7	8	.020	−29.9	−29.4	−38.8	ese	5	10	----	7	0	e	7,000	15	Overcast	
	18	28.805	979.6	8	.100	−19.5	−19.5	−29.9	e	19	10	----	7	0	u	7,000	3	Overcast	
	24	28.620	973.3	6	.075	−4.7	−4.7	−21.5	se	15	10	----	2	0	u	5,000	5	Overcast	
June 30	06	28.634	974.0	3	.020	−23.9	−3.6	−24.2	sw	5	7	2	2	0	u	6,000	15	Cloudy	
	12	28.743	977.6	2	.045	−18.8	−18.3	−26.7	sw	6	9	0	2	0	u	8,000	20	Snow crystals	
	18	28.900	983.1	2	.045	−34.5	−18.3	−34.5	wsw	6	4	0	1	0	u	u	25	Partly cloudy	
	24	28.916	983.6	3	.000	−36.4	−32.9	−38.3	ssw	9	6	0	5	0	e	8,000	15	Cloudy	

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July 1	06	28.857	980.7	8	.030	−20.4	−20.4	−37.3	s	13	10	----	1	0	u	8,000	5	Snow grains	
	12	28.744	977.5	8	.060	−11.6	−11.6	−20.7	ssw	14	10−	0	1	0	u	6,000	15	Snow grains	
	18	28.718	976.7	5	.010	−14.1	−11.6	−16.5	sw	12	10−	0	1	0	u	6,000	15	Snow grains	
	24	28.814	980.1	2	.065	−28.9	−14.1	−29.5	w	10	10−	0	1	0	u	8,000	10	Overcast	
July 2	06	28.976	985.4	2	.045	−5.3	−5.0	−28.9	nnw	9	10	----	1	0	u	8,000	10	Overcast	
	12	29.113	990.0	2	.055	−3.4	−3.4	−5.8	nw	14	10	----	----	5	u	5,000	5	Lgt drift, low	
	18	29.203	993.1	2	.045	−3.2	−3.2	−4.3	ne	10	10	----	----	5	u	5,000	10	Overcast	
	24	29.127	990.8	9	.045	−7.1	−3.1	−7.3	ese	30	X	----	----	----	----	0	½	Mdt drift, high	
July 3	06	28.952	984.4	7	.075	−2.7	−2.7	−20.9	ese	33	X	----	----	----	----	0	½e	Hvy drift, high	
	12	28.824	980.0	7	.050	12.4	12.4	−6.0	ne	28	X	----	----	----	----	0	½e	Hvy drift, high	
	18	28.822	979.9	3	.000	12.2	13.0	11.0	ene	20	10	----	2	0	u	4,000	½	Lgt drift, low	
	24	28.856	981.1	4	.015	11.2	12.5	−3.5	ne	14	10	----	1	0	u	3,000	5	Lgt snow, cont	
July 4	06	28.808	979.5	8	.020	10.2	11.2	−5.0	ne	16	10	----	1	0	u	4,000	15	Lgt drift, low	
	12	28.754	977.6	7	.030	12.2	12.5	5.7	ene	18	10	----	2	0	u	4,000	15	Lgt drift, low	
	18	28.760	969.8	3	.000	8.2	12.7	7.3	ne	5	10	----	----	5	u	4,000	20	Overcast	
	24	28.805	979.4	2	.015	5.2	8.2	4.8	ene	9	10	----	----	5	u	4,000	20	Overcast	
July 5	06	28.869	981.7	2	.025	−6.7	5.2	−7.4	ene	5	10−	0	0	5	u	4,000	20	Overcast	Thin CU broke 0500-0600.
	12	28.894	982.6	2	.010	−5.6	−2.1	−10.3	ne	3	10−	0	0	5	u	4,000	15	Overcast	
	18	28.882	982.1	3	.000	−3.0	−1.0	−6.2	ene	4	10	----	----	5	u	4,000	20	Overcast	¼″ rime on ENE exposures.
	24	28.837	982.0	8	.010	−7.3	−2.1	−8.0	e	9	10	----	----	5	u	1,000	20	Overcast	
July 6	06	28.821	980.3	3	.000	−28.8	−2.1	−29.0	se	8	6	0	0	5	u	1,000	15	Cloudy	
	12	28.790	979.0	7	.020	−8.6	−8.3	−28.9	s	7	10	----	----	5	u	1,000	¾	Overcast	Lgt rime on E exposures.
	18	28.765	978.4	8	.010	−22.0	−8.3	−22.4	s	6	4	0	7	0	u	u	10	Partly cloudy	½″ rime on S exposures.
	24	28.750	977.9	6	.020	−26.7	−7.5	−27.7	s	6	3	0	5	0	nw	u	20	Partly cloudy	
July 7	06	28.766	978.7	1	.015	−26.0	−17.1	−28.6	sw	7	3	0	5	0	nw	u	20	Partly cloudy	
	12	28.770	978.7	7	.005	−35.4	−23.1	−35.9	ssw	8	3	0	5	0	nw	u	20	Partly cloudy	
	18	28.783	979.2	3	.005	−41.3	−35.1	−41.3	s	5	F	0	7	0	u	u	20	Cloudless	
	24	28.841	981.1	1	.020	−30.7	−29.9	−42.7	s	17	0	0	0	0	----	u	30	Cloudless	
July 8	06	28.888	982.7	2	.020	−36.4	−30.7	−36.8	sw	12	0	0	0	0	----	u	20	Cloudless	
	12	28.896	983.0	2	.010	−41.5	−35.6	−42.5	ssw	5	0	0	0	0	----	u	20	Cloudless	
	18	28.886	982.6	9	.005	−36.7	−36.7	−41.5	ene	5	X	----	----	----	----	0	½	Mdt fog, incsg	
	24	28.833	980.5	7	.030	−8.5	−8.0	−36.7	n	10	F	0	7	0	u	u	1	Lgt fog	
July 9	06	28.783	978.8	3	.000	−6.8	−6.2	−8.9	n	17	10	----	7	0	u	2,000	½	Mdt drift, low	
	12	28.794	979.1	2	.015	−.7	−.7	−7.0	n	16	10	----	7	0	u	2,000	½	Mdt drift, low	
	18	28.984	985.9	2	.065	−34.5	−.7	−35.2	w	12	4	0	7	0	u	u	10	Partly cloudy	
	24	29.204	993.5	2	.075	−38.1	−32.9	−38.3	ssw	14	2	0	5	0	w	u	5	Lgt drift, low	
July 10	06	29.410	1,000.6	2	.080	−48.1	−38.1	−48.1	w	10	9	0	5	0	w	u	5	Cloudy	
	12	29.553	1,005.4	2	.050	−45.9	−45.6	−48.1	sw	12	2	0	5	0	sw	u	10	Partly cloudy	
	18	29.657	1,009.0	2	.025	−47.9	−45.9	−49.3	ssw	5	3	0	5	0	u	u	5	Hazy	
	24	29.645	1,008.5	2	.000	−38.3	−38.3	−48.6	ese	7	10	----	----	5	e	3,000	8	Overcast	
July 11	06	29.482	1,002.7	8	.100	−25.0	−25.0	−38.3	ese	21	10	----	----	5	u	2,000	1½	Lgt drift, low	
	12	29.230	994.1	8	.100	−25.8	−24.8	−26.8	e	29	X	----	----	----	----	0	½	Mdt drift, high	
	18	29.069	988.7	7	.025	−21.4	−21.1	−27.8	se	19	X	----	----	----	----	0	2	Lgt drift, high	
	24	29.062	988.5	3	.000	−31.9	−19.7	−32.1	ssw	6	9	0	5	0	sw	u	10	Cloudy	
July 12	06	29.070	988.7	3	.000	−23.1	−22.3	−31.9	sw	6	10	----	5	0	sw	u	10	Overcast	
	12	29.091	989.9	3	.010	−30.6	−20.4	−31.3	sw	4	9	0	5	0	u	u	15	Cloudy	
	18	29.114	990.5	1	.010	−48.0	−30.6	−48.0	ssw	4	0	0	0	0	----	u	4	Cloudless	
	24	29.129	991.0	2	.020	−46.5	−44.2	−51.6	ese	10	0	0	0	0	----	u	10	Cloudless	SC over sea, moving E.
July 13	06	29.136	991.2	3	.000	−50.1	−46.5	−50.8	ese	9	0	0	0	0	----	u	25	Cloudless	
	12	29.167	992.1	2	.020	−41.9	−39.4	−50.1	e	7	0	0	0	0	----	u	25	Cloudless	
	18	29.263	995.6	2	.040	−52.7	−41.7	−54.8	sse	3	0	0	0	0	----	u	25	Cloudless	
	24	29.236	994.6	7	.015	−38.3	−38.2	−57.8	ene	10	10	----	----	5	u	2,000	5	Overcast	
July 14	06	29.211	993.7	2	.000	−44.5	−32.8	−44.5	sw	3	F	0	7	0	u	u	20	Cloudless	
	12	29.138	991.3	7	.050	−50.8	−41.2	−50.8	se	4	0	0	0	0	----	u	25	Cloudless	
	18	29.078	989.4	7	.020	−60.2	−49.8	−60.2	ssw	7	0	0	0	0	----	u	25	Cloudless	
	24	28.976	986.0	7	.060	−55.0	−55.9	−60.2	se	5	10	----	----	1	0	u	6,000	4	Hazy	Clouds thin.
July 15	06	28.810	980.0	7	.070	−37.8	−37.3	−56.0	ese	20	10	----	----	1	0	u	6,000	1½	Lgt drift, low	
	12	28.681	975.9	7	.045	−52.9	−37.8	−52.9	s	8	4	0	1	0	u	u	4	Ice crystals	
	18	28.620	973.7	6	.030	−51.8	−51.3	−56.0	ssw	12	0	0	0	0	----	u	4	Hazy	
	24	28.639	974.6	1	.015	−62.3	−51.8	−62.3	s	7	10	----	----	1	0	u	10	Overcast	Faint lunar corona.
July 16	06	28.706	976.9	2	.045	−65.9	−54.9	−66.6	w	8	5	0	1	0	u	u	10	Partly cloudy	
	12	28.736	978.0	1	.015	−69.0	------	−69.0	s	2	0	0	0	0	----	u	5	Cloudless	Colorless 22° lunar halo.
	18	28.653	975.0	7	.050	−65.7	------	−71.1	e	4	0	0	0	0	----	u	5	Cloudless	
	24	28.527	971.2	7	.065	−51.0	------	−68.9	ese	16	3	0	1	0	u	u	5	Partly cloudy	Colorless 22° lunar halo.
July 17	06	28.433	967.3	7	.025	−39.9	−39.4	−53.4	se	15	9	0	1	0	u	u	5	Cloudy	Colorless lunar corona.
	12	28.435	967.4	8	.005	−50.1	−39.8	−52.1	s	3	10	----	1	0	u	u	5	Overcast	Colorless 22° lunar halo.
	18	28.427	967.2	3	.000	−50.9	−47.7	−51.9	s	8	10	----	1	0	sw	u	5	Overcast	
	24	28.472	968.6	1	.020	−53.8	−48.7	−53.8	s	6	10	----	7	0	sw	u	25	Overcast	

TABLE 11a.—*Little America III, six-hourly observations*—Continued

JULY 1940—Continued

Date	GMT	Pressure: Sta. (ins.)	Pressure: S. L. mb.	Pressure: 3-hour char.	Pressure: 3-hour ins.	Thermometers: Dry °F.	Thermometers: Max. °F.	Thermometers: Min. °F.	Wind: Dir. from	Wind: Speed m. p. h.	Clouds: Amt.	Clouds: H	Clouds: M	Clouds: L	Clouds: Dir. from	Clouds: Clg. ft.	Vis. mi.	Weather	Notes
July 18	06	28.487	969.3	2	.020	−60.1	−53.3	−60.7	s	3	10	7	5	0	w	u	20	Overcast	Colorless 22° lunar halo.
	12	28.490	969.5	2	.010	−62.1	−59.8	−62.5	s	5	8	2	0	0	w	u	20	Cloudy	
	18	28.497	969.7	3	.000	−62.3	−58.8	−62.5	s	4	1	2	7	0	w	u	25	Partly cloudy	
	24	28.505	970.0	3	.000	−54.8	−54.8	−63.1	s	4	2	0	7	0	u	u	20	Light snow, cont	
July 19	06	28.508	970.0	3	.005	−60.7	−54.4	−60.7	s	7	10	7	0	0	u	u	15	Overcast	Colorless lunar corona.
	12	28.558	971.8	3	.025	−61.6	----	−63.1	s	9	0	0	0	0	----	u	25	Cloudless	
	18	28.574	972.2	1	.015	−59.2	−59.0	−63.1	sw	3	0	0	0	0	----	u	25	Cloudless	Faint lunar corona.
	24	28.542	970.8	3	.010	−37.4	−37.4	−59.3	sw	8	10	----	7	0	u	4,000	5	Snow grains	
July 20	06	28.661	975.1	4	.060	−39.4	−27.7	−39.9	s	6	7	0	7	0	n	8,000	10	Ice crystals	
	12	28.850	981.9	2	.060	−48.1	−39.4	−48.1	s	5	3	0	7	0	u	u	25	Partly cloudy	Colorless lunar corona.
	18	28.894	983.1	1	.010	−51.8	−45.8	−51.8	s	6	0	0	0	0	----	u	25	Cloudless	
	24	28.800	979.9	3	.040	−50.4	−41.5	−55.6	ssw	8	0	0	0	0	----	u	30	Cloudless	
July 21	06	28.685	975.8	7	.025	−34.5	−34.5	−50.4	sw	4	8	0	7	0	u	u	5	Overcast	
	12	28.726	977.2	1	.020	−31.9	−31.9	−34.6	s	3	10	0	2	0	u	4,000	5	Light snow, cont	22° lunar halo.
	18	28.823	980.5	2	.045	−31.1	−30.6	−38.2	e	5	10	----	1	5	ne	4,000	10	Overcast	
	24	28.968	985.4	3	.070	−31.3	−26.5	−38.0	e	9	10−	0	0	5	ne	2,000	10	Ice crystals	
July 22	06	29.093	989.3	3	.060	−19.7	−18.8	−31.7	e	13	10	----	----	5	u	2,000	10	Overcast	
	12	29.270	995.4	3	.080	−11.6	−11.5	−19.7	ne	5	10	----	----	5	u	2,000	10	Light snow, cont	
	18	29.412	1,000.3	3	.060	−18.7	−11.6	−18.7	ene	7	10−	0	0	5	e	2,000	10	Overcast	
	24	29.440	1,001.5	2	.025	−34.3	−17.7	−34.3	se	8	8	0	1	5	w	5,000	10	Cloudy	
July 23	06	29.373	999.1	7	.040	−37.3	−26.9	−38.3	sw	7	0	0	0	0	----	u	20	Cloudless	
	12	29.352	998.3	8	.010	−27.9	−19.7	−44.5	w	3	10	----	----	5	u	2,000	20	Overcast	
	18	29.333	997.8	8	.010	−27.2	−26.9	−30.2	ene	6	10	----	1	5	u	2,000	10	Ice crystals	
	24	29.414	1,000.7	3	.050	−19.3	−17.7	−27.2	nw	10	3	0	7	5	ne	u	20	Partly cloudy	
July 24	06	29.547	1,004.9	3	.080	−13.7	−12.5	−28.8	n	10	8	0	7	5	ne	2,500	10	Cloudy	
	12	29.654	1,008.7	3	.040	−37.9	−13.3	−40.4	ne	4	0	0	0	0	----	u	30	Cloudless	
	18	29.670	1,009.2	1	.005	−32.0	−29.6	−44.6	se	10	10	----	1	0	u	4,000	5	Hazy	
	24	29.639	1,009.4	9	.015	−33.4	−31.6	−38.3	se	11	4	0	1	0	u	u	15	Partly cloudy	Rime on SE exposures 0100.
July 25	06	29.566	1,005.8	7	.040	−30.7	−29.7	−33.5	se	13	4	0	1	0	u	u	10	Partly cloudy	Wind died 0700, became S.
	12	29.416	1,000.6	7	.095	−25.4	−25.4	−42.5	se	31	X	----	----	----	----	0	⅛s	Heavy drift, high	Stars visible overhead.
	18	29.198	993.0	7	.015	−17.6	−16.4	−26.1	se	39	X	----	----	----	----	0	⅛s	Heavy drift, high	
	24	29.008	986.4	7	.065	−10.6	−10.6	−26.4	ese	36	X	----	----	----	----	0	⅛s	Heavy drift, high	
July 26	06	28.892	982.5	6	.040	−9.6	−8.8	−11.7	s	25	X	----	----	----	----	0	¾	Light drift, high	
	12	28.790	979.0	6	.045	−9.8	−9.6	−10.7	se	15	10	----	2	0	u	2,000	10	Light snow, cont	
	18	28.723	976.9	6	.025	−18.3	−9.8	−18.5	s	22	10	----	----	5	u	2,000	½	Moderate snow, cont	
	24	28.732	977.2	3	.010	−24.3	−17.9	−24.8	ssw	24	X	----	----	----	----	0	¼	Moderate drift, high	
July 27	06	28.767	978.5	2	.015	−25.6	−23.7	−26.0	ssw	21	10	----	----	5	u	2,000	¾	Light drift, low	
	12	28.757	977.9	3	.000	−11.9	−11.9	−27.2	se	25	X	----	----	----	----	0	½	Moderate drift, high	Fog, ice crystals 08–09.
	18	28.725	976.8	9	.010	−12.0	−11.5	−15.4	ese	31	X	----	----	----	----	0	⅛s	Heavy drift, high	Stars visible overhead.
	24	28.719	976.6	8	.005	−4.6	−4.3	−13.6	ese	29	X	----	----	----	----	0	⅛s	Heavy drift, high	
July 28	06	28.726	976.8	2	.005	−1.3	−1.3	−5.5	ese	21	10	----	----	5	u	2,000	½	Moderate drift, low	
	12	28.695	975.7	9	.015	1.0	4.0	−2.7	ese	37	10	----	----	5	u	2,000	¼	Moderate drift, low	
	18	28.666	974.9	6	.020	−4.0	1.0	−7.6	e	34	10−	0	0	5	ne	2,000	½	Moderate drift, low	
	24	28.609	976.0	3	.005	−16.4	−4.0	−16.6	ese	12	10−	0	5	0	ne	5,000	10	Overcast	
July 29	06	28.726	976.9	3	.005	−11.1	−11.1	−18.4	ese	12	10−	0	5	0	u	5,000	15	Overcast	
	12	28.809	979.7	2	.030	−3.7	−3.7	−12.6	e	11	10	----	3	0	u	5,000	10	Ice crystals	
	18	28.903	982.8	3	.040	−1.5	−1.5	−4.7	e	12	10	----	3	0	u	5,000	10	Overcast	
	24	28.990	985.7	3	.040	0.7	2.0	−2.1	ese	11	10	----	5	0	ne	5,000	15	Overcast	
July 30	06	29.065	988.2	2	.040	1.0	4.7	−0.1	e	3	10−	0	0	5	ne	2,000	15	Light snow, cont	
	12	29.031	987.1	6	.030	−2.0	4.0	−2.6	e	8	10	----	1	0	ne	2,000	10	Light snow, cont	
	18	28.921	983.4	7	.065	0.5	1.1	−3.1	e	14	10	----	2	0	ne	2,000	5	Light snow, cont	
	24	28.754	977.7	8	.085	−1.8	4.0	−2.1	e	18	10	----	2	0	u	4,000	3	Light drift, low	
July 31	06	28.608	972.8	8	.080	1.2	2.6	−1.8	se	26	10	----	2	0	u	4,000	¾	Moderate drift, low	
	12	28.559	971.2	7	.020	−7.7	1.2	−8.2	s	11	10	----	2	0	se	1,500	2	Ice crystals	
	18	28.580	972.0	3	.005	−18.6	−6.3	−21.1	s	22	10	----	1	0	u	1,500	½	Ice crystals	Also moderate fog, incsg.
	24	28.612	973.2	2	.010	−29.9	−17.5	−29.9	sw	21	9	8	5	5	s	4,000	⅛s	Moderate drift, low	

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August 1	06	28.664	975.1	2	.020	−32.0	−24.8	−32.0	sw	25	0	0	0	0	----	u	5/16	Mdt drift, low	
	12	28.752	978.0	1	.040	−32.2	−28.6	−32.6	wsw	9	2	0	0	5	sw	u	10	Partly cloudy	
	18	28.794	979.5	1	.015	−37.2	−31.8	−38.3	wsw	8	F	0	4	0	sw	u	20	Cloudless	
	24	28.779	978.7	8	.010	−16.6	−6.2	−38.4	sse	2	10	----	----	5	u	3,000	½	Mdt fog, incsg	Also snow grains; rime.
August 2	06	28.784	978.8	1	.005	−9.6	−2.1	−17.1	nw	12	9	0	7	5	ne	4,000	8	Snow grains	Clear 0130–0300.
	12	28.737	977.2	5	.025	−10.3	−9.2	−10.7	w	13	10	----	----	5	u	4,000	½	Mdt fog, incsg	
	18	28.808	979.9	4	.030	−28.1	−8.3	−28.6	sw	7	10	----	----	5	u	2,000	3	Lgt snow, ocnl	
	24	28.850	981.4	4	.000	−34.7	−28.1	−36.4	sw	4	10−	0	0	5	s	4,000	20	Cloudy	
August 3	06	28.861	981.9	3	.000	−42.5	−33.5	−42.5	sw	6	0	0	0	0	----	u	20	Cloudless	
	12	28.793	979.7	6	.020	−48.5	−42.2	−51.4	sse	2	0	0	0	0	----	u	30	Cloudless	
	18	28.684	975.8	7	.055	−36.3	−36.3	−53.1	se	7	10−	0	1	0	u	6,000	10	Overcast	Stars, aurora vsbl; clear E.
	24	38.603	973.0	8	.030	−38.9	−36.2	−42.3	ese	7	2	0	1	0	ne	u	10	Partly cloudy	
August 4	06	28.529	970.6	8	.040	−53.5	−38.2	−53.5	s	4	3	0	4	0	ne	u	10	Partly cloudy	
	12	38.426	967.2	7	.070	−49.2	−45.6	−53.7	sw	7	3	0	5	0	u	u	10	Partly cloudy	
	18	38.364	965.1	6	.015	−59.1	−48.7	−59.1	s	7	0	0	0	0	----	u	20	Cloudless	
	24	28.326	964.1	7	.020	−61.3	−58.0	−62.0	ssw	4	2	0	5	0	sw	u	20	Partly cloudy	
August 5	06	28.310	963.3	7	.005	−60.2	−58.0	−61.4	s	3	F	0	5	0	sw	u	20	Cloudless	
	12	28.293	962.6	6	.020	−48.8	−48.7	−60.4	wsw	7	F	0	5	0	s	u	5	Hazy	
	18	28.250	961.1	7	.030	−44.6	−43.6	−49.7	w	9	F	0	5	0	s	u	10	Cloudless	
	24	28.271	961.8	3	.000	−41.0	−41.0	−49.9	sw	9	10	----	----	5	s	4,000	15	Overcast	
August 6	06	28.293	962.5	3	.020	−40.0	−40.0	−46.1	sse	4	10	----	3	0	u	4,000	15	Overcast	
	12	38.311	962.9	4	.005	−28.1	−28.0	−40.1	s	7	10−	0	3	0	u	4,000	4	Ice crystals	Stars visible.
	18	28.354	964.3	1	.015	−21.7	−21.3	−28.6	s	2	10	----	3	0	u	4,000	4	Lgt snow, cont	¼ inch powdery snow.
	24	38.364	964.5	3	.020	−7.5	−7.4	−21.9	n	12	10	----	7	0	ne	4,000	8	Overcast	
August 7	06	28.442	967.2	2	.035	−16.9	−7.1	−16.9	ne	12	2	0	5	0	e	u	10	Partly cloudy	
	12	28.557	971.3	3	.045	−26.9	−16.5	−28.6	ene	11	4	0	3	0	e	4,000	10	Partly cloudy	
	18	28.643	974.3	3	.035	−27.1	−21.0	−27.1	e	10	2	0	4	0	e	4,000	15	Partly cloudy	
	24	28.676	975.3	3	.020	−15.4	−15.4	−28.6	nne	16	10	----	----	5	u	2,000	¾	Overcast	
August 8	06	28.774	978.6	3	.050	−15.4	−15.1	−15.9	nne	16	10	----	----	5	u	2,000	¾	Overcast	
	12	38.905	983.0	3	.080	−18.8	−15.4	−19.5	e	13	10	----	----	5	u	3,500	5	Overcast	
	18	28.923	983.8	1	.005	−26.9	−18.8	−28.6	e	24	4	0	4	0	u	3,500	½	Mdt drift, low	
	24	28.861	981.8	7	.035	−36.1	−26.4	−37.5	ssw	2	0	0	0	0	----	u	30	Cloudless	
August 9	06	28.706	976.5	8	.080	−35.0	−30.6	−39.9	ssw	12	7	7	0	0	u	u	20	Cloudy	22° lunar halo; pillar 0230.
	12	28.593	972.8	7	.040	−49.9	−34.6	−50.1	s	2	1	0	4	0	u	u	20	Partly cloudy	
	18	28.564	972.9	8	.005	−54.1	−49.7	−54.3	sse	3	F	0	4	0	s	u	30	Cloudless	
	24	28.645	974.6	3	.040	−46.8	−46.8	−56.7	e	15	10	7	0	0	u	u	1	Lgt drift, low	

TABLE 11a.—*Little America III, six-hourly observations*—Continued

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Date	GMT	Pressure				Thermometers			Wind		Clouds						Vis. mi.	Weather	Notes
		Sta. (ins.)	S. L. mb.	3-hour char.	3-hour ins.	Dry °F.	Max. °F.	Min. °F.	Dir. from	Speed m. p. h.	Amt.	H	M	L	Dir. from	Clg. ft.			
August 10	06	28.638	974.2	8	.005	−33.3	−33.3	−46.8	ese	21	10	----	2	0	u	4,000	5/16	Mdt drift, low	
	12	28.428	966.8	7	.160	−14.6	−14.6	−33.5	se	37	X	----	----	----	----	0	1/32	Hvy drift, high	
	18	28.344	963.9	7	.040	−13.4	−8.7	−17.3	se	28	10−	0	0	5	se	4,000	½	Mdt drift, low	
	24	28.301	963.5	8	.010	−21.0	−13.0	−23.1	ese	21	10	----	----	5	se	4,000	½	Mdt drift, low	
August 11	06	28.348	964.0	2	.025	−6.2	−6.2	−25.2	ese	20	10	----	----	5	u	4,000	½	Mdt drift, low	Moon visible.
	12	28.472	968.1	2	.060	−10.6	−6.2	−12.9	e	15	9	0	0	5	e	3,000	2	Lgt snow, cont	
	18	28.596	972.6	3	.060	−15.3	−10.6	−21.4	e	7	8	0	1	5	s	3,000	5	Cloudy	
	24	28.688	975.6	3	.055	−12.5	−11.5	−23.3	se	8	10	----	7	0	se	4,000	30	Overcast	
August 12	06	28.746	977.6	1	.010	−9.7	−8.4	−13.4	sw	4	10	----	7	0	se	5,000	20	Overcast	Moon faintly visible.
	12	28.655	974.4	9	.065	−7.0	−6.9	−10.1	w	17	10	----	----	5	u	5,000	¾	Lgt snow, cont	
	18	28.600	972.8	7	.020	−31.2	−7.0	−31.2	s	3	F	0	7	0	s	u	30	Cloudless	Two banks AS on E horizon.
	24	28.609	973.2	2	.000	−29.9	−20.7	−31.2	ssw	4	0	0	0	0	----	u	30	Cloudless	
August 13	06	28.603	973.0	7	.010	−35.8	−25.1	−39.8	ssw	5	9	0	1	0	nw	u	15	Cloudy	Luna corona.
	12	28.461	967.9	9	.090	−13.1	−13.1	−35.8	n	12	10	----	2	0	u	u	2	Milky	
	18	28.553	971.3	2	.055	−34.5	−7.2	−34.5	sw	13	4	0	1	0	u	u	½	Mdt fog, dcsg	
	24	28.643	974.5	2	.010	−42.0	−34.2	−44.1	s	3	10	----	----	5	u	4,000	1	Lgt fog, dcsg	
August 14	06	28.524	970.1	7	.055	−29.4	−29.4	−42.1	ese	16	X	----	----	----	----	0	1/8	Mdt snow & fog	
	12	28.397	965.8	7	.060	−24.5	−24.4	−30.1	se	14	10	----	1	0	u	6,000	¼	Mdt snow, cont	
	18	28.339	964.0	6	.025	−31.9	−23.5	−32.3	s	8	10	----	1	5	w	6,000	5	Lgt snow, cont	
	24	28.380	965.5	3	.020	−40.0	−31.8	−40.8	ssw	7	0	0	0	0	----	u	2½	Lgt fog, dcsg	
August 15	06	28.433	967.1	3	.020	−42.5	−39.9	−49.5	e	3	4	0	7	0	nw	u	8	Partly cloudy	Bright 4° corona.
	12	28.446	967.5	3	.010	−25.9	−25.9	−47.9	e	7	10	----	1	0	ne	4,000	4	Lgt snow, cont	
	18	28.447	967.5	3	.000	−21.5	−20.9	−28.1	e	15	10−	0	3	0	ne	4,000	3	Lgt snow, cont	
	24	28.502	969.4	3	.020	−25.0	−21.1	−28.2	e	16	10	----	3	0	ne	5,000	2½	Lgt drift, low	Also hazy.
August 16	06	28.559	971.3	3	.030	−26.0	−23.2	−28.1	e	13	10−	0	3	0	ne	5,000	2½	Hazy	
	12	28.605	972.9	3	.020	−22.6	−19.7	−26.3	e	11	10	----	1	5	nw	4,000	2	Lgt fog, dcsg	
	18	28.623	973.7	3	.015	−27.2	−22.2	−28.6	e	12	10	----	1	5	nw	4,000	5	Overcast	Lunar corona.
	24	28.662	975.0	3	.020	−34.6	−27.2	−34.9	ene	9	10	----	----	5	nw	4,000	10	Overcast	
August 17	06	28.694	976.2	1	.015	−39.3	−33.1	−41.1	ne	6	0	0	0	0	----	u	20	Cloudless	
	12	28.690	976.2	3	.005	−49.5	−33.7	−49.7	e	5	0	0	0	0	----	u	30	Cloudless	
	18	28.662	975.1	8	.010	−42.5	−41.5	−52.6	se	7	10−	0	2	5	n	4,000	10	Overcast	Lunar corona 1700.
	24	28.613	973.4	8	.040	−45.6	−32.9	−45.6	e	7	10	----	2	5	ne	4,000	8	Overcast	
August 18	06	28.527	970.4	8	.040	−36.4	−36.4	−49.6	sse	10	10	----	2	5	u	4,000	8	Overcast	
	12	28.358	964.5	9	.075	−27.1	−26.4	−36.4	ssw	12	10	----	----	5	u	3,000	1	Lgt snow, cont	
	18	28.171	958.2	7	.110	−29.2	−26.4	−32.1	s	12	10	----	----	5	u	3,000	½	Mdt snow, cont	Some drift on surface.
	01	27.955	950.6	8	.100	−5.3	−3.3	−29.7	ese	18	10	----	----	5	u	3,000	¼	Mdt snow, cont	*Obsn made at 0100.*
August 19	06	27.859	947.3	8	.065	−2.7	−1.0	−6.8	se	22	10	----	----	5	u	3,000	¼	Mdt snow, cont	
	12	27.775	944.4	6	.050	−5.8	−2.1	−7.4	s	4	10	----	----	5	u	3,500	2	Overcast	Breaks 1230–1500.
	18	27.866	947.7	4	.070	−12.6	−5.2	−18.2	wnw	2	10−	0	7	5	s	7,000	2	Lgt snow, cont	Wind variable.
	24	28.211	959.3	3	.190	−5.9	−5.4	−14.4	nw	27	10	----	----	5	u	3,500	½	Mdt snow, cont	Also mdt drift.
August 20	06	28.606	972.8	3	.205	−10.4	−3.1	−11.0	n	20	0	0	0	0	----	u	¼	Mdt drift, low	
	12	28.885	982.3	3	.110	−17.6	−10.4	−17.7	nne	19	0	0	0	0	----	u	2	Ice crystals	Also drift; 22° lunar halo.
	18	28.875	982.1	9	.015	−27.5	−16.7	−29.0	se	17	7	0	1	5	e	3,500	5	Lgt drift, low	
	24	28.784	978.9	5	.020	−13.5	−13.5	−32.6	se	19	10	----	2	5	e	5,000	¾	Lgt drift, low	
August 21	06	28.742	977.4	7	.010	−11.1	−9.9	−19.8	sse	32	10−	0	0	5	u	5,000	¼	Mdt drift, low	
	12	28.728	977.0	6	.010	−16.5	−9.6	−17.4	se	27	X	----	----	----	----	0	1/8	Mdt drift, high	
	18	28.600	972.8	7	.055	−28.6	−15.5	−28.8	s	7	8	0	4	5	e	3,000	5	Cloudy	
	24	28.454	967.8	7	.050	−28.6	−21.0	−29.8	ssw	27	10	----	3	0	s	3,000	5/16	Mdt drift, low	
August 22	06	28.499	969.3	2	.020	−29.7	−26.4	−31.5	ssw	25	10	----	3	0	u	3,000	5/16	Mdt drift, low	
	12	28.715	976.8	2	.120	−43.1	−29.7	−43.1	wsw	14	0	0	0	0	----	u	5	Ice crystals	
	18	28.992	986.4	2	.120	−47.5	−43.0	−48.3	wsw	8	0	0	0	0	----	u	10	Cloudless	
	24	29.119	990.7	2	.040	−49.8	−47.5	−50.6	ese	12	3	0	7	0	ne	u	10	Partly cloudy	
August 23	06	29.010	986.6	8	.060	−20.7	−20.0	−52.8	ese	28	10−	0	7	0	u	6,000	¼	Mdt drift, low	
	12	28.800	979.4	7	.095	−10.8	−10.8	−23.8	ese	42	X	----	----	----	----	0	0	Hvy drift, high	
	18	28.780	978.7	8	.005	−9.7	−9.7	−12.1	ese	33	X	----	----	----	----	0	0	Hvy drift, high	
	24	28.790	979.1	3	.005	−13.0	−8.4	−13.2	ese	24	10−	7	3	8	u	6,000	1/8	Mdt drift, low	
August 24	06	28.731	977.0	8	.020	−9.1	−8.6	−14.7	ese	31	10	----	3	0	u	6,000	1/8	Mdt drift, low	
	12	28.669	974.9	7	.035	−5.8	−5.8	−12.6	sse	20	10−	0	3	0	u	6,000	8	Overcast	
	18	28.541	970.7	8	.060	−13.8	−5.7	−15.3	ssw	10	10−	0	0	5	s	1,800	5	Overcast	
	24	28.399	965.8	7	.065	−20.9	−9.4	−22.1	s	17	10−	6	1	0	s	4,000	3	Overcast	
August 25	06	28.340	963.9	6	.030	−29.8	−20.2	−29.9	sw	22	3	0	1	0	u	u	¼	Mdt drift, low	
	12	28.347	964.4	3	.010	−47.3	−26.6	−47.3	sw	20	3	0	1	0	u	u	¼	Mdt drift, low	
	18	28.437	967.6	1	.025	−54.3	−47.3	−54.5	sw	13	F	0	5	0	s	u	2	Lgt drift, low	
	24	28.447	967.8	4	.000	−53.1	−53.0	−54.9	sw	14	F	0	5	0	nw	u	6	Cloudless	
August 26	06	28.426	967.2	8	.005	−52.0	−52.0	−53.8	sw	7	F	0	5	0	u	u	10	Cloudless	
	12	28.429	967.2	3	.000	−51.0	−49.9	−53.4	sw	8	0	0	0	0	----	u	20	Cloudless	
	18	28.391	965.9	8	.020	−49.6	−46.7	−52.7	w	3	0	0	0	0	----	u	30	Cloudless	
	24	28.383	965.6	3	.000	−38.3	−38.3	−52.5	ssw	5	10−	0	0	5	w	3,000	20	Overcast	Clear 2100; overcast 2130.
August 27	06	28.445	967.4	3	.035	−29.9	−28.6	*−38.3*	w	3	10−	0	0	5	u	3,000	20	Overcast	
	12	28.581	972.5	2	.080	−54.9	−28.6	−54.9	sw	14	0	0	0	0	----	u	20	Cloudless	
	18	28.752	978.3	3	.090	−58.2	−54.9	−58.8	sw	13	F	0	7	0	u	u	20	Cloudless	
	24	28.853	981.7	2	.025	−46.7	−46.7	−58.9	e	3	10−	0	7	6	w	750	3	Overcast	
August 28	06	28.841	981.1	8	.010	−31.0	−30.7	−49.9	nne	6	10−	0	7	6	w	1,000	20	Snow grains	
	12	28.766	978.5	7	.035	−24.4	−24.4	−34.2	e	8	10	----	----	5	u	1,000	5	Lgt snow, cont	
	18	28.699	976.2	8	.035	−24.1	−23.1	−27.1	se	16	10	----	----	5	u	1,000	4	Overcast	
	24	28.724	977.0	4	.010	−27.8	−22.3	−28.0	s	12	10	----	----	5	s	1,000	10	Overcast	
August 29	06	28.800	979.8	2	.030	−38.1	−27.5	−39.1	sw	8	10	----	----	5	u	1,000	10	Overcast	
	12	28.837	981.0	3	.025	−39.5	−37.0	−39.5	ssw	12	10	----	----	5	u	1,000	6	Snow grains	
	18	28.837	981.0	3	.000	−44.3	−39.5	−44.4	ssw	5	7	0	7	0	nw	1,000	10	Cloudy	
	24	28.815	980.5	8	.010	−54.3	−44.3	−54.4	s	5	2	0	7	0	w	u	30	Partly cloudy	
August 30	06	28.768	978.9	6	.020	−61.0	−53.6	−61.0	s	4	F	0	7	0	u	u	30	Cloudless	
	12	28.736	977.9	6	.010	−63.0	−54.7	−64.2	s	3	F	0	7	0	u	u	30	Cloudless	
	18	28.673	975.6	6	.020	−53.7	−53.7	−64.6	sse	3	10−	0	0	5	n	2,000	10	Overcast	Clouded 1500.
	24	28.655	974.9	8	.005	−47.9	−44.6	−64.6	s	8	10−	0	0	5	w	2,000	10	Overcast	
August 31	06	28.689	976.4	4	.010	−62.1	−47.9	−64.4	s	7	0	0	0	0	----	u	20	Cloudless	
	12	28.732	977.8	7	.005	−68.5	−61.3	−68.5	sw	5	0	0	0	0	----	u	20	Cloudless	
	18	28.788	979.8	4	.015	−71.1	*−65.0*	−72.1	s	6	F	0	7	0	s	u	20	Cloudless	
	24	28.865	982.4	2	.045	−72.0	*−65.0*	−72.8	sw	3	F	0	7	0	w	u	20	Cloudless	

TABLE 11a.—*Little America III, six-hourly observations*—Continued

SEPTEMBER 1940

Date	GMT	Pressure				Thermometers			Wind		Clouds						Vis. mi.	Weather	Notes
		Sta. (ins.)	S. L. mb.	3-hour char.	3-hour ins.	Dry °F.	Max. °F.	Min. °F.	Dir. from	Speed m. p. h.	Amt.	H	M	L	Dir. from	Cig. ft.			
September 1	06	28.915	984.0	3	.020	−73.8	.....	−73.8	s	2	F	0	7	0	w	u	20	Cloudless	
	12	28.985	986.3	0	.025	−63.8	.....	−74.2	e	2	0	0	0	0	.....	u	2	Cloudless	
	18	28.987	986.4	3	.000	−67.6	.....	−74.4	se	4	F	0	7	0	nw	u	30	Cloudless	
	24	28.996	986.7	3	.000	−56.8	−56.5	−68.5	se	12	10−	0	3	0	w	5,000	10	Overcast	
September 2	06	28.931	984.4	8	.035	−60.1	−56.1	−63.6	ese	12	F	0	7	0	u	u	10	Cloudless	
	12	28.837	981.3	7	.050	−65.5	−50.8	−66.8	se	10	0	0	0	0	.....	u	10	Cloudless	
	18	28.736	978.0	7	.050	−73.3	.....	−73.4	s	2	0	0	0	0	.....	u	2	Hazy	
	24	28.637	974.5	7	.030	−67.4	.....	−73.3	s	6	0	0	0	0	.....	u	½	Hazy	
September 3	06	28.586	972.8	7	.040	−69.0	.....	−69.5	s	5	0	0	0	0	.....	u	1	Hazy	
	12	28.568	972.2	3	.000	−70.1	.....	−70.1	sse	9	0	0	0	0	.....	u	1	Hazy	
	18	28.604	973.4	3	.005	−73.3	.....	−73.8	s	2	F	0	7	0	nw	u	1	Hazy	
	24	28.602	973.2	3	.000	−69.5	.....	−73.6	se	11	F	0	5	0	nw	u	2	Hazy	
September 4	06	28.576	972.3	8	.005	−58.0	.....	−69.5	sse	16	F	0	5	0	nw	u	2	Hazy	
	12	28.569	971.9	3	.000	−48.7	−48.7	−63.3	se	16	10	----	----	5	u	4,000	½	Hazy	
	18	28.548	971.5	9	.010	−67.0	−48.7	−67.1	s	6	F	0	7	0	n	u	2	Cloudless	Mirages cut visibility.
	24	28.523	970.6	7	.020	−64.1	−58.4	−68.1	ssw	9	0	0	0	0	.....	u	5	Cloudless	
September 5	06	28.481	970.5	8	.005	−61.8	−60.0	−64.2	sw	8	0	0	0	0	.....	u	10	Cloudless	
	12	28.460	968.5	7	.005	−72.1	−59.8	−72.1	ssw	6	0	0	0	0	.....	u	10	Cloudless	
	18	28.439	968.0	3	.000	−74.0	.....	−74.1	ssw	2	F	0	7	0	nw	u	10	Cloudless	
	24	28.460	968.7	3	.005	−74.0	.....	−75.0	sse	5	F	0	4	0	n	u	5	Cloudless	
September 6	06	28.546	971.5	2	.045	−71.9	.....	−74.2	s	2	0	0	0	0	.....	u	5	Cloudless	
	12	28.554	971.8	3	.000	−69.8	.....	−73.5	ssw	7	F	0	4	0	u	u	5	Cloudless	
	18	28.533	971.0	7	.010	−65.5	.....	−70.8	s	8	10	----	----	5	u	1,000	4	Overcast	
	24	28.550	971.4	3	.000	−54.9	−51.3	−68.6	ssw	12	0	0	0	0	.....	u	5	Cloudless	
September 7	06	28.544	971.2	2	.005	−55.0	−54.9	−57.8	sw	11	0	0	0	0	.....	u	15	Cloudless	
	12	28.539	971.0	3	.000	−54.0	−52.8	−57.2	sw	10	0	0	0	0	.....	u	15	Cloudless	
	18	28.543	971.2	3	.000	−57.1	−51.9	−57.1	wnw	5	0	0	0	0	.....	u	20	Cloudless	
	24	28.558	971.8	2	.000	−63.7	−52.3	−64.7	se	6	0	0	0	0	.....	u	10	Cloudless	
September 8	06	28.598	973.2	2	.030	−68.2	.....	−68.7	sse	4	0	0	0	0	.....	u	10	Cloudless	
	12	28.712	977.2	3	.060	−70.6	.....	−72.3	s	5	0	0	0	0	.....	u	10	Cloudless	Lunar corona.
	18	28.810	980.3	2	.045	−61.1	.....	−70.7	sw	8	F	0	0	5	u	u	5	Cloudless	Clouds on S & E horizons.
	24	28.926	984.2	2	.050	−52.8	−52.8	−71.2	sw	11	1	5	0	0	nw	u	20	Partly cloudy	
September 9	06	28.871	982.4	7	.040	−58.2	−52.8	−61.1	sw	5	F	5	0	0	u	u	20	Cloudless	Lunar corona.
	12	28.767	978.8	7	.060	−49.7	−49.7	−59.1	sw	5	7	0	1	0	u	4,000	10	Cloudy	
	18	28.651	974.8	6	.060	−46.6	−45.9	−50.8	e	14	10	----	----	5	u	4,000	4	Lgt drift, low	
	24	28.614	973.4	6	.010	−35.5	−35.5	−47.0	sw	4	10	----	----	5	u	500	5/16	Milky	
September 10	06	28.619	973.5	5	.000	−35.9	−35.9	−36.2	sse	7	10	----	----	5	u	500	½	Milky	
	12	28.765	978.8	3	.080	−60.8	−35.9	−60.8	sw	12	1	0	1	0	u	u	6	Partly cloudy	
	18	28.880	982.8	3	.045	−61.4	−57.9	−62.1	w	4	1	0	5	0	n	u	10	Partly cloudy	
	24	28.989	986.4	2	.050	−59.9	−58.8	−61.4	se	5	1	5	7	0	nw	u	20	Partly cloudy	
September 11	06	29.044	986.8	2	.025	−58.2	−58.2	−60.4	e	8	4	5	7	0	w	u	20	Partly cloudy	
	12	29.058	988.6	3	.000	−52.8	−52.8	−58.5	e	10	9	0	7	0	u	u	10	Cloudy	
	18	29.052	988.4	3	.000	−48.3	−47.6	−53.1	e	13	8	5	7	0	ne	u	20	Cloudy	
	24	29.058	988.5	8	.005	−40.2	−40.1	−48.4	sse	9	10−	0	7	5	u	6,000	10	Overcast	
September 12	06	29.048	988.1	4	.005	−35.8	−35.1	−40.8	e	16	10	----	7	5	u	4,000	1½	Milky	
	12	29.039	987.7	3	.000	−32.2	−32.2	−35.9	e	21	10	----	7	5	u	4,000	½	Mdt drift, low	
	18	28.981	985.8	7	.025	−31.6	−31.6	−34.2	ese	21	10	----	----	5	u	1,000	¼	Mdt drift, low	
	24	28.900	983.0	7	.035	−28.6	−27.6	−31.9	ese	18	X	----	----	----	-----	0	1/32	Hvy drift, high	Also mdt snow, cont.
September 13	06	28.819	980.2	8	.040	−28.9	−27.7	−29.0	e	23	8	0	2	5	ne	6,000	5/16	Mdt drift, low	
	12	28.806	979.9	8	.005	−29.9	−26.8	−32.1	e	17	8	0	2	2	u	6,000	5/16	Mdt drift, low	
	18	28.842	981.0	4	.015	−24.5	−24.2	−31.9	se	16	10−	0	0	5	ne	4,000	1	Lgt drift, low	
	24	28.886	982.4	2	.029	−20.7	−20.7	−25.5	se	16	10	----	----	5	u	1,000	¾	Lgt drift, low	
September 14	06	28.851	981.3	7	.015	−26.4	−20.7	−26.8	s	9	10	----	----	5	u	1,000	6	Overcast	
	12	28.777	979.1	8	.040	−46.7	−26.4	−46.8	ssw	9	2	0	0	5	se	u	10	Partly cloudy	22° lunar halo; pillar.
	18	28.725	977.4	7	.020	−54.8	−46.7	−55.0	s	5	0	0	0	0	.....	u	20	Cloudless	Few AC E horizon.
	24	28.679	975.9	7	.010	−55.7	−47.3	−55.7	ssw	10	0	0	0	0	.....	u	20	Cloudless	
September 15	06	28.641	974.6	6	.020	−61.1	−55.3	−61.1	s	6	0	0	0	0	.....	u	20	Cloudless	
	12	28.605	973.2	7	.015	−59.7	−59.7	−63.1	s	3	F	0	7	0	u	u	20	Cloudless	22° lunar halo.
	18	28.613	973.6	3	.000	−60.1	−58.8	−62.5	e	1	1	5	5	0	ne	u	15	Partly cloudy	
	24	28.681	975.9	3	.040	−47.0	−47.0	−60.1	ese	18	4	0	5	0	u	u	½	Mdt drift, low	
September 16	06	28.756	978.5	2	.025	−59.9	−46.7	−59.9	s	7	0	0	0	0	.....	u	10	Cloudless	
	12	28.779	979.3	2	.000	−62.2	.....	−62.2	s	4	0	0	0	0	.....	u	20	Cloudless	
	18	28.768	979.0	3	.000	−63.1	−60.1	−64.4	sse	2	F	0	7	0	u	u	20	Cloudless	
	24	28.743	978.1	7	.010	−55.1	−55.1	−63.6	s	5	1	5	7	0	u	u	15	Ice crystals	White solar halo.
September 17	06	28.671	975.1	7	.020	−40.8	−38.3	−57.1	wsw	12	4	8	7	0	nw	u	15	Partly cloudy	Clouds thickened 0300.
	12	28.645	974.6	3	.000	−55.4	−39.9	−57.4	s	4	10−	0	0	5	u	2,000	2	Overcast	
	18	28.709	976.8	2	.045	−53.8	−53.8	−59.0	se	14	F	0	7	0	se	u	10	Cloudless	
	24	28.775	979.1	1	.020	−58.9	−52.6	−60.9	s	8	4	5	3	0	n	u	10	Partly cloudy	
September 18	06	28.811	980.5	3	.020	−63.9	−57.9	−64.4	s	5	F	0	7	0	u	u	20	Cloudless	
	12	28.817	980.7	3	.000	−64.6	−63.1	−66.1	s	5	0	0	0	0	.....	u	20	Cloudless	
	18	28.821	980.8	3	.000	−63.0	.....	−65.3	ese	9	0	0	0	0	.....	u	10	Cloudless	
	24	28.839	981.2	4	.005	−50.8	−50.8	−63.0	e	10	0	0	0	0	.....	u	20	Cloudless	
September 19	06	28.866	982.3	3	.005	−54.9	−50.2	−54.9	ese	11	0	0	0	0	.....	u	20	Cloudless	
	12	28.903	983.5	3	.030	−60.1	−54.8	−60.1	se	5	0	0	0	0	.....	u	20	Cloudless	
	18	28.886	983.0	9	.005	−61.2	−60.0	−63.6	se	5	0	0	0	0	.....	u	20	Cloudless	
	24	28.848	981.6	9	.025	−54.8	−54.8	−61.2	sse	9	10−	0	2	0	se	4,000	3	Milky	
September 20	06	28.772	979.0	7	.040	−57.2	−52.8	−60.1	se	8	0	0	0	0	.....	u	8	Cloudless	
	12	28.701	976.4	7	.025	−42.2	−42.2	−60.5	sse	8	10	----	2	0	u	4,000	3	Milky	
	18	28.631	974.2	8	.040	−48.7	−36.2	−48.7	s	7	3	0	0	5	sw	u	20	Partly cloudy	SC breaking, clouds in NE
	24	28.524	970.5	7	.050	−57.0	−48.7	−58.4	s	5	F	0	5	0	ne	u	20	Cloudless	
September 21	06	28.416	966.9	7	.040	−56.3	−53.1	−57.8	sw	5	F	0	5	0	ne	u	10	Cloudless	
	12	28.377	965.7	8	.010	−62.8	−56.1	−62.8	sw	4	0	0	0	0	.....	u	20	Cloudless	
	18	28.425	967.3	3	.025	−65.3	.....	−65.8	ssw	2	F	0	5	0	w	u	30	Cloudless	
	24	28.493	969.5	2	.025	−54.0	−53.9	−65.9	e	2	10	----	----	5	nw	1,000	½	Milky	Clouds moved in from NW.
September 22	06	28.590	972.7	2	.060	−46.7	−44.8	−54.0	nw	4	10	----	----	5	u	2,000	1½	Milky	Fog, visibility ½, 0030-0100.
	12	28.707	976.9	2	.060	−54.9	−46.7	−54.9	ssw	2	2	0	0	5	sw	u	15	Partly cloudy	Halos, etc., 0200-0400.
	18	28.762	978.6	2	.040	−51.4	−49.3	−60.4	ene	7	3	0	0	6	nw	u	10	Partly cloudy	
	24	28.762	978.4	3	.000	−32.0	−29.7	−51.4	e	10	F	0	5	0	w	u	20	Cloudless	
September 23	06	28.687	975.9	8	.050	−31.9	−31.9	−40.7	e	24	10−	0	5	0	u	2,000	¼	Mdt drift, low	
	12	28.469	968.3	7	.130	−19.0	−13.0	−32.6	ese	37	X	----	----	----	-----	0	1/32	Hvy drift, high	
	18	28.093	955.5	8	.220	−14.3	−14.3	−19.0	se	53	X	----	----	----	-----	0	0	Hvy drift, high	
	24	27.640	939.9	8	.225	−6.3	−5.8	−14.3	se	53	X	----	----	----	-----	0	0	Hvy drift, high	
September 24	06	27.430	932.7	6	.070	5.5	8.5	−6.3	se	26	8	0	3	0	u	5,000	1/48	Hvy drift, low	62 mph at 0112.
	12	27.685	941.3	2	.150	1.2	8.2	1.2	nne	30	10	----	3	0	u	5,000	1/32	Hvy drift, low	
	18	27.827	946.2	1	.070	−4.9	2.2	−6.1	ne	24	10−	0	3	0	ne	5,000	1/32	Hvy drift, low	
	24	27.854	947.2	1	.015	−6.4	−4.9	−9.7	ne	32	10	----	----	5	u	1,000	0	Hvy drift, low	

TABLE 11a.—*Little America III, six-hourly observations*—Continued

SEPTEMBER 1940—Continued

Date	GMT	Pressure: Sta. (ins.)	Pressure: S. L. mb.	Pressure: 3-hour char.	Pressure: 3-hour ins.	Thermometers: Dry °F.	Thermometers: Max. °F.	Thermometers: Min. °F.	Wind: Dir. from	Wind: Speed m. p. h.	Clouds: Amt.	Clouds: H	Clouds: M	Clouds: L	Clouds: Dir. from	Clouds: Clg. ft.	Vis. mi.	Weather	Notes
September 25	06	27.881	948.1	3	.000	−0.7	0.0	−9.8	nne	24	X					0	⅛s	Hvy drift, high	Wind gusty, died to 11 mph.
	12	28.204	959.2	2	.160	−20.7	0.2	−21.5	w	13	3	0	7	0	s	u	6	Partly cloudy	
	18	28.421	966.6	2	.090	−14.9	−14.9	−28.2	ne	11	10			5	u	2,000	10	Overcast	
	24	28.657	974.5	3	.100	−7.0	0.0	−15.4	nnw	22	10−	0	0	5	n	3,000	½	Mdt drift, low	
September 26	06	28.808	979.7	3	.800	−8.3	−6.8	−12.7	ene	15	2	0	5	0	n	u	2	Lgt drift, low	0400: .8 FC at 1000 from N.
	12	28.873	982.1	1	.020	−23.6	−8.3	−24.8	ese	19	4	0	7	0	ne	u	2½	Lgt drift, low	
	18	28.787	979.1	8	.040	−27.2	−23.1	−28.2	e	10	F	0	7	0	ne	u	15	Cloudless	
	24	28.753	977.9	7	.020	−17.8	−17.7	−28.8	sw	7	10−	0	3	0	ne	4,000	3	Milky	
September 27	06	28.844	980.5	3	.050	−15.8	−14.7	------	e	6	10−	0	0	5	ne	4,000	6	Overcast	
	12	28.883	982.3	3	.010	−18.2	−13.5	−19.1	ese	13	10−	0	7	5	u	4,000	10	Overcast	
	18	28.861	981.6	9	.020	−14.3	−14.0	−19.0	ese	25	X					0	⅛s	Hvy drift, high	
	24	28.743	977.6	7	.035	−19.6	−12.5	−19.7	se	14	10−	7	0	0	e	8,000	4	Lgt, drift low	
September 28	06	28.614	973.3	8	.060	−23.0	−18.1	−24.6	s	22	10	7	5	0	ne	u	1	Lgt drift, low	
	12	28.572	971.6	7	.020	−7.8	−7.6	−23.6	ese	24	10			5	u	4,000	½	Mdt drift, low	
	18	28.618	973.2	2	.035	−4.9	−4.1	−11.5	ese	29	10			5	u	4,000	⅛s	Hvy drift, low	
	24	28.578	971.8	7	.015	0.8	0.8	−6.8	se	12	9	0	5	5	ne	4,000	10	Cloudy	Clearing to NE.
September 29	06	28.417	966.2	7	.060	−0.2	4.1	−2.6	s	9	9	0	0	4	e	3,000	10	Cloudy	
	12	28.362	964.3	4	.015	4.2	4.2	−1.7	nne	4	10			5	u	3,000	10	Lgt snow, cont	
	18	28.578	971.6	2	.115	6.6	13.0	1.3	nne	14	10−	0	5	5	e	3,000	5	Overcast	
	24	28.593	974.2	9	.020	7.2	7.2	0.9	ese	27	10−	0	3	0	e	3,000	½	Mdt drift, low	
September 30	06	28.578	971.7	7	.010	9.7	11.0	−9.1	se	21	10			5	ne	3,000	6	Lgt drift, low	
	12	28.522	969.8	7	.040	6.0	9.7	5.1	ese	25	10−	0	7	0	e	3,000	8	Lgt drift, low	
	18	28.441	967.0	8	.030	5.2	9.2	4.3	e	14	10			5	u	3,000	5	Lgt snow, cont	
	24	28.500	969.0	3	.035	14.6	14.6	4.1	ene	11	10			5	u	2,000	4	Lgt snow, cont	

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October 1	06	28.657	974.4	3	.080	−0.5	14.9	−1.9	e	11	4	0	7	0	u	u	10	Partly cloudy	Open water visible.
	12	28.968	985.0	2	.155	−1.7	7.7	−2.4	ne	6	4	0	7	0	se	u	8	Partly cloudy	Gusts before N wind 0945.
	18	29.071	988.5	3	.085	1.2	6.0	−7.0	ese	30	10			7	5	ne	2,000	⅛	Mdt drift, low	Strong E wind began 1400.
	24	29.110	989.8	1	.010	5.2	5.2	1.2	ese	33	10				5	u	2,000	⅛s	Hvy drift, low	
October 2	06	29.156	991.3	2	.020	0.9	5.8	0.1	e	27	7	0	7		5	u	2,000	1	Lgt drift, low	
	12	29.251	994.7	1	.040	1.4	1.7	−5.3	se	22	10			7	5	e	2,000	2½	Lgt drift, low	
	18	29.236	994.2	3	.000	−3.5	2.9	−5.8	s	6	6	8	5	0	nw	u	20	Partly cloudy	
	24	29.180	992.2	9	.035	−8.5	2.3	−10.4	s	6	7	8	0	0	u	u	20	Cloudy	Bright sunshine.
October 3	06	29.149	991.3	7	.060	−17.4	−8.5	−17.6	s	14	7	6	4	0	s	u	30	Cloudy	22° solar halo 0200.
	12	28.895	982.8	7	.080	−27.9	−16.1	−27.9	ssw	11	4	8	0	0	u	u	20	Partly cloudy	
	18	28.677	975.4	8	.110	−28.9	−26.5	−31.7	s	8	0	0	0	0	------	u	20	Ice crystals	Bright halo and complex.
	24	28.316	963.0	3	.170	−20.0	−19.9	−31.8	ssw	32	0	0	0	0	------	u	⅝e	Mdt drift, low	Bright halo, no colors.
October 4	06	28.117	956.3	7	.105	−15.6	−15.5	−23.6	w	17	6	2	3	0	w	u	2	Ice crystals	Sky obscured 0200–0500.
	12	27.900	948.8	7	.120	−7.8	−7.8	−20.6	nw	18	10			5	u	2,000	1	Overcast	Halo complex 0600.
	18	27.891	948.5	4	.050	−11.8	3.0	−14.7	sw	15	10			5	w	2,000	5	Overcast	
	24	28.085	955.1	2	.125	−19.8	−7.3	−20.3	w	16	6	0	0	5	sw	3,000	20	Cloudy	
October 5	06	28.242	960.4	1	.070	−8.4	−8.4	−20.1	wnw	15	10−	0	0	5	nw	1,200	10	Overcast	
	12	28.405	965.9	2	.100	−12.1	−5.1	−15.8	w	16	6	0	0	5	w	1,500	12	Cloudy	
	18	28.615	973.2	3	.095	−17.8	−12.1	−18.8	wnw	12	1	0	4	0	nw	u	20	Partly cloudy	
	24	28.793	979.2	1	.090	−13.0	−13.0	−19.1	ww	3	1	0	4	0	nw	u	20	Partly cloudy	
October 6	06	28.925	983.8	3	.060	−25.8	−10.0	−26.7	nn	2	F	1	0	3	nw	u	30	Cloudless	
	12	29.051	988.0	2	.060	−26.1	−20.5	−32.4	e	2	9	0	0	5	w	3,500	15	Cloudy	
	18	29.197	992.9	3	.060	−16.9	−16.7	−32.6	s	2	10			5	n	3,000	10	Overcast	
	24	29.285	995.9	3	.040	−9.7	−5.3	−17.5	sse	8	10			5	n	3,000	10	Overcast	
October 7	06	29.291	996.0	3	.000	−2.1	0.0	−10.3	se	6	10			5	u	3,000	10	Overcast	
	12	29.214	993.4	8	.030	−5.3	0.0	−6.1	se	11	10			5	u	3,000	10	Overcast	
	18	29.093	989.8	9	.045	−14.7	−5.2	−15.4	e	14	10			5	u	1,000	¼	Lgt snow, ocnl	Milky.
	24	28.935	984.1	6	.035	−24.7	−14.7	−26.9	ese	22	10		1	0	u	3,000	⅝e	Mdt drift, low	Colorless halo 2100.
October 8	06	28.783	979.1	8	.075	−31.8	−24.6	−31.8	ssw	13	6	2	4	0	nw	u	10	Ice crystals	Bright sun.
	12	28.651	974.6	7	.055	−34.7	−31.8	−37.7	sw	15	4	2	0	0	nw	u	20	Partly cloudy	Scud from E 0630–0700.
	18	28.599	972.8	3	.000	−40.0	−33.8	−41.3	s	12	1	2	0	0	nw	u	20	Ice crystals	Faint 22° halo, etc.
	24	28.598	972.8	8	.005	−34.3	−30.2	−40.7	s	8	4	2	0	0	nw	u	20	Ice crystals	
October 9	06	28.603	973.0	3	.005	−39.3	−30.7	−39.4	s	8	3	2	0	0	n	u	20	Partly cloudy	
	12	28.614	973.5	3	.000	−47.3	−39.3	−47.3	s	8	6	2	4	0	n	u	20	Cloudy	
	18	28.602	972.9	8	.010	−38.5	−36.4	−48.8	s	5	7	2	5	0	ne	u	15	Cloudy	
	24	28.614	973.3	3	.000	−28.8	−27.0	−39.7	s	16	9	6	5	0	ne	u	15	Cloudy	Faint halo 2200–0200.
October 10	06	28.688	975.8	2	.045	−26.7	−24.2	−28.8	wsw	10	8	6	5	0	ne	u	15	Cloudy	
	12	28.837	980.9	3	.080	−32.0	−26.4	−34.2	se	13	10−	6	7	0	e	u	10	Overcast	
	18	28.910	983.3	1	.035	−22.8	−22.8	−33.4	e	15	9	0	3	0	ne	3,000	10	Cloudy	AC becoming SC to E.
	24	28.905	983.0	3	.000	−14.2	−14.2	−25.5	ese	22	10−	0	0	5	sw	2,000	½	Mdt drift, low	
October 11	06	28.842	980.6	8	.035	−9.3	−8.3	−19.7	ese	25	10−	0	0	5	ne	2,000	10	Overcast	
	12	28.712	976.4	7	.070	−8.8	−8.3	−12.9	ese	37	10−	0	7	5	ne	2,000	8	Overcast	No drift despite high wind
	18	28.589	972.2	7	.070	−4.7	−4.3	−9.8	se	31	10−	9	7	0	e	5,000	15	Overcast	
	24	28.482	968.4	8	.065	−2.9	−1.2	−5.1	se	26	9	9	7	0	se	u	4	Lgt drift, low	
October 12	06	28.391	965.5	7	.025	−15.9	−1.0	−17.6	s	16	8	0	3	0	s	u	20	Cloudy	
	12	28.317	963.1	7	.025	−29.9	−15.9	−29.9	ssw	14	6	0	3	0	se	4,000	20	Cloudy	
	18	28.329	963.3	3	.000	−35.1	−29.9	−35.8	sw	9	1	4	3	0	ne	u	20	Partly cloudy	
	24	28.403	966.2	2	.045	−30.1	−30.1	−35.2	ssw	6	F	8	4	0	u	u	20	Cloudless	CS to S; AC to NE.
October 13	06	28.526	970.3	3	.060	−32.8	−29.6	−35.4	s	3	1	8	4	0	u	u	20	Partly cloudy	
	12	28.675	975.2	3	.065	−20.1	−20.1	−36.4	e	12	10			5	u	500	5	Overcast	Fog 0900 left rime.
	18	28.788	979.0	3	.060	−9.6	−9.6	−26.5	e	19	10			5	u	500	½	Mdt drift, low	Also lgt snow.
	24	28.813	979.8	2	.010	2.2	7.0	−10.7	ese	26	X					0	⅛	Mdt drift, high	
October 14	06	28.745	977.3	7	.025	9.2	9.2	2.2	ese	31	X					0	⅛s	Hvy drift, high	
	12	28.616	973.0	7	.090	10.5	10.5	5.0	se	34	10			5	u	2,000	⅛s	Hvy drift, low	
	18	28.514	969.5	6	.025	9.2	13.0	6.3	se	24	10			5	u	2,000	⅛s	Hvy drift, low	
	24	28.551	970.9	2	.005	6.0	9.2	3.4	e	17	10			5	n	2,000	⅛	Mdt snow, cont	
October 15	06	28.597	972.3	4	.035	11.8	14.0	5.1	nne	15	10			5	n	2,000	1½	Overcast	Snow ended 0530.
	12	28.664	974.6	1	.015	8.2	11.8	7.3	n	14	10			5	n	2,000	½	Mdt snow, cont	
	18	28.629	973.5	9	.010	4.9	8.5	3.5	ene	6	10			5	u	2,000	3	Overcast	
	24	28.487	968.6	8	.080	−0.4	5.5	−0.6	sse	11	2	4	7	0	nw	u	20	Partly cloudy	Cleared 2100–2300.
October 16	06	28.343	963.8	7	.055	−3.7	0.7	−7.5	sse	17	2	4	5	0	sw	u	20	Partly cloudy	Open water at barrier edge.
	12	28.192	958.8	8	.070	−18.3	−1.0	−18.7	ssw	5	F	4	5	0	sw	u	20	Cloudless	
	18	28.087	955.1	7	.075	−8.6	−8.2	−20.4	sw	17	0	0	0	0	------	u	½	Ice crystals	Crystal fall heavy.
	24	28.086	955.1	3	.000	−8.5	−5.8	−11.4	sw	12	3	4	3	0	s	u	16	Ice crystals	Active AC forming to N.
October 17	06	28.188	958.7	2	.045	−19.2	−7.5	−20.4	wsw	7	10	4	3	5	sw	2,000	10	Overcast	Clouds thickened 0300.
	12	28.272	961.6	2	.025	−28.9	−19.2	−29.3	ssw	4	10			5	u	1,000	10	Overcast	Clear 0900; fog & rime 1,100.
	18	28.309	962.8	2	.015	−24.5	−24.4	−28.9	s	5	3	0	5	0	s	u	⅝e	Lgt fog, incsg	Fog bow; rime on S sides.
	24	28.263	961.2	9	.020	−16.9	−16.9	−25.7	s	9	10−	6	0	0	n	u	10	Overcast	Halo complex.

TABLE 11a.—*Little America III, six-hourly observations*—Continued

OCTOBER 1940—Continued

Date	GMT	Pressure				Thermometers			Wind		Clouds						Vis. mi.	Weather	Notes
		Sta. (ins.)	S. L. mb.	3-hour char.	3-hour ins.	Dry °F.	Max. °F.	Min. °F.	Dir. from	Speed m. p. h.	Amt.	H	M	L	Dir. from	Clg. ft.			
October 18	06	28.188	958.7	7	.035	−14.9	−13.7	−18.5	ssw	18	10	7	0	0	n	u	1	Lgt drift, low	Ice crys. 0130; drift 02-04.
	12	28.102	955.6	7	.020	−12.6	−10.9	−18.8	ssw	21	10			5	u	2,000	¾	Lgt drift, low	
	18	28.092	955.4	4	.000	−15.2	−12.5	−17.3	sw	18	10			5	u	2,000	½	Mdt drift & snow	
	24	28.139	956.9	2	.030	−12.6	−12.5	−18.1	sw	17	10			5	u	2,000	½	Mdt snow, cont	
October 19	06	28.196	958.9	2	.030	−11.1	−11.1	−13.9	ssw	8	10			5	s	2,000	6	Lgt snow, cont	
	12	28.228	959.9	2	.020	−10.4	−10.2	−11.7	ssw	3	10			5	n	2,000	6	Overcast	
	18	28.263	961.1	2	.025	−6.2	−3.4	−11.9	wsw	2	10		3	5	w	2,000	10	Overcast	
	24	28.358	964.2	3	.040	−0.8	−0.7	−7.0	sw	7	10−	0	0	5	w	2,000	10	Overcast	SC thin; clear to N.
October 20	06	28.462	967.8	2	.045	−8.6	4.8	−11.2	sw	2	1	1	3	0	s	u	20	Partly cloudy	Clear 0200–0400.
	12	28.524	969.9	2	.030	−0.5	4.0	−19.7	ene	8	10		7	5	ne	2,000	15	Overcast	Wind E 0700 with hvy snow.
	18	28.522	969.8	3	.005	−1.9	3.8	−5.7	e	22	10−	0	7	5	ne	2,000	¾	Lgt drift, low	Ocnl lgt snow.
	24	28.470	969.4	8	.030	0.4	0.8	−3.5	ese	27	10			5	u	3,000	1/16	Hvy drift, low	
October 21	06	28.430	966.7	7	.010	6.7	7.5	0.4	ene	17	10			5	ne	2,000	¾	Snow grains	
	12	28.470	968.0	2	.020	9.1	9.5	4.5	ne	13	10			5	u	1,000	¾	Snow grains	
	18	28.564	971.2	3	.035	9.6	10.0	8.7	ene	16	10			5	u	3,000	1½	Lgt snow, ocnl	
	24	28.618	973.0	1	.020	6.1	10.9	6.0	ese	16	10			5	ne	3,000	3	Lgt drift, low	
October 22	06	28.638	973.8	2	.010	3.7	6.3	2.6	e	20	9	0	1	5	ne	6,000	8	Lgt drift, low	
	12	28.680	975.3	2	.015	−8.6	4.2	−9.0	e	15	8	1	1	5	ne	7,000	20	Lgt drift, low	
	18	28.700	976.0	4	.005	−6.2	−6.2	−12.5	e	18	3	5	0	0	nw	u	20	Lgt drift, low	
	24	28.735	977.0	1	.020	−1.7	0.0	−7.5	ese	19	5	9	0	0	ne	u	15	Lgt drift, low	
October 23	06	28.790	979.0	2	.030	−8.8	−1.2	−9.8	e	10	1	1	0	0	e	u	20	Partly cloudy	Bright 22° halo 0400.
	12	28.846	981.1	2	.020	−20.7	−8.8	−22.2	ese	6	F	1	0	0	u	u	20	Cloudless	
	18	28.867	981.9	3	.015	−24.4	−19.1	−24.9	sw	8	F	1	0	0	u	u	20	Cloudless	
	24	28.867	981.7	3	.000	−4.0	−4.0	−24.4	sw	12	F	1	0	0	n	u	30	Cloudless	
October 24	06	28.834	980.5	2	.005	−13.6	−3.9	−15.2	s	17	F	1	0	0	u	u	30	Cloudless	Looming to E; sea smoke N.
	12	28.833	980.7	2	.005	−23.8	−13.5	−23.8	s	7	F	1	0	0	u	u	30	Cloudless	Wind ocnly calm, gusty.
	18	28.826	980.5	8	.005	−22.4	−20.2	−27.6	s	7	F	1	0	0	sw	u	30	Cloudless	
	24	28.783	978.9	7	.020	−14.9	−14.8	−23.1	s	4	F	5	0	0	sw	u	30	Cloudless	Sea smoke N.
October 25	06	28.773	978.6	3	.000	−17.1	−13.1	−19.1	ssw	6	F	5	0	0	u	u	30	Cloudless	Dense sea smoke N.
	12	28.747	977.8	7	.010	−28.4	−16.6	−31.6	ssw	6	O	0	0	0	------	u	30	Cloudless	
	18	28.687	975.7	7	.030	−18.0	−18.0	−31.5	ssw	7	F	1	0	0	sw	u	30	Cloudless	
	24	28.692	975.7	8	.005	−9.3	−6.2	−19.0	wsw	12	F	1	0	0	sw	u	30	Cloudless	
October 26	06	28.671	975.1	7	.010	−16.1	−7.7	−16.1	sw	13	4	1	0	5	s	u	20	Partly cloudy	Dense sea smoke N.
	12	28.646	974.4	7	.010	−22.5	−15.8	−24.8	ssw	7	3	2	0	0	s	u	20	Partly cloudy	Dense sea smoke N.
	18	28.618	973.2	9	.015	−17.5	−15.9	−26.7	s	2	4	5	5	0	w	u	20	Partly cloudy	
	24	28.597	972.5	7	.025	−8.6	−8.6	−19.4	e	9	4	5	7	0	sw	u	30	Partly cloudy	
October 27	06	28.538	970.5	7	.030	−6.1	−6.1	−9.8	se	14	8	6	7	0	w	4,000	20	Cloudy	Faint colorless 22° halo.
	12	28.453	967.7	7	.040	−15.6	−6.0	−16.4	ese	23	2	9	7	0	s	u	6	Lgt drift, low	
	18	28.387	965.3	7	.035	−4.9	−4.9	−16.4	ese	29	8	9	7	0	nw	u	½	Mdt drift, low	
	24	28.384	965.2	8	.005	−3.7	−2.0	−6.5	ese	19	8	9	7	0	nw	u	6	Lgt drift, low	Colorless 22° halo.
October 28	06	28.366	964.6	7	.015	−11.1	−3.7	−12.2	ese	14	8	6	0	0	w	u	10	Lgt drift, low	
	12	28.372	964.9	3	.000	−20.7	−11.1	−21.5	ese	12	3	6	5	0	n	u	5	Ice crystals	
	18	28.383	965.3	3	.000	−14.9	−14.9	−21.0	e	13	10			5	u	3,000	2	Milky	
	24	28.412	966.0	3	.010	3.2	3.2	−15.5	e	12	10			5	u	1,000	1½	Lgt snow, cont	
October 29	06	28.502	969.1	2	.060	10.7	13.8	3.2	ene	7	10			5	u	1,000	2	Lgt snow, cont	
	12	28.583	972.1	2	.040	−4.7	11.0	−9.4	e	9	10−	1	7	5	u	3,000	5	Overcast	
	18	28.643	973.9	3	.040	6.3	6.3	−11.8	e	11	10−	0	3	0	e	5,000	10	Overcast	
	24	28.700	975.9	8	.030	5.2	8.0	3.1	e	17	10	0	0	5	e	3,000	8	Overcast	
October 30	06	28.706	976.1	3	.000	2.0	6.0	1.1	ese	20	3	2	5	0	e	u	30	Partly cloudy	
	12	28.682	975.4	7	.020	−4.7	2.0	−5.3	ese	23	3	1	4	0	e	u	30	Partly cloudy	Bright halo and pillar 0700.
	18	28.618	973.2	6	.020	−3.5	−2.3	−5.9	se	16	8	4	0	0	ne	u	30	Cloudy	
	24	28.598	972.4	8	.010	0.5	1.0	−5.5	se	10	2	8	0	0	se	u	30	Partly cloudy	
October 31	06	28.610	972.9	2	.020	−3.8	1.2	−4.3	sse	9	9	1	0	5	s	4,000	5	Cloudy	Faint parhelion.
	12	28.658	974.7	2	.020	−13.6	−3.1	−14.1	se	8	10−	0	7	5	n	4,000	5	Overcast	
	18	28.694	975.8	4	.025	−5.3	−5.0	−15.6	se	13	10−	0	7	6	ne	4,000	10	Overcast	
	24	28.801	979.3	3	.050	0.4	1.0	−6.6	ese	20	10−	0	2	5	ne	8,000	10	Overcast	High AS&AC, lwr SC, all NE.

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November 1	06	28.869	981.8	2	.030	−3.2	3.8	−17.4	ese	6	1	0	1	5	ne	u	10	Partly cloudy	
	12	28.834	980.6	7	.020	−18.1	−1.8	−18.1	sw	12	F	0	5	0	s	u	30	Cloudless	
	18	28.827	980.4	3	.000	−16.2	−14.1	−22.0	s	8	F	2	0	0	s	u	30	Cloudless	Water visible N.
	24	28.872	981.8	2	.010	−6.0	−3.9	−16.9	ese	13	F	2	0	0	s	u	30	Cloudless	
November 2	06	28.960	984.8	2	.045	−5.2	−3.5	−8.3	ese	13	10			5	n	2,000	8	Overcast	Water sky N.
	12	29.052	987.8	2	.045	−1.2	−1.0	−5.3	ese	14	10−	0	0	5	ne	2,000	8	Lgt drift, low	
	18	29.174	991.9	3	.080	−1.5	2.2	−7.1	se	7	9	9	3	0	ne	4,000	10	Cloudy	
	24	29.225	993.7	3	.030	3.0	4.1	−2.9	sw	12	F	1	0	0	s	u	20	Cloudless	Wind shifted SE to SW 2100.
November 3	06	29.281	995.8	2	.025	−3.2	3.0	−4.3	ssw	14	0	0	0	0	------	u	10	Ice crystals	22° halo etc. complex 01-06
	12	29.345	998.0	2	.040	−13.6	−3.0	−14.2	sw	10	2	0	0	5	sw	u	20	Partly cloudy	
	18	29.415	1,000.3	2	.020	−13.8	−13.6	−15.5	sw	5	F	0	4	0	sw	u	20	Cloudless	Lenticular AC W, S, E, hrzns.
	24	29.465	1,002.0	2	.030	−7.0	−7.0	−14.5	s	6	F	5	0	0	e	u	20	Cloudless	
November 4	06	29.477	1,002.4	3	.000	−6.6	−5.5	−9.3	ssw	6	F	1	0	0	se	u	20	Cloudless	
	12	29.422	1,000.6	7	.020	−15.6	−6.5	−17.9	ssw	5	F	1	0	0	u	u	30	Cloudless	
	18	29.310	996.8	7	.055	−8.7	−8.7	−17.2	sw	15	0	0	0	0	------	u	30	Ice crystals	Ocnl lgt drift.
	24	29.257	995.0	7	.020	−4.1	−3.8	−11.4	se	10	0	0	0	0	------	u	30	Cloudless	Hvy SC & sea smoke N hrzn.
November 5	06	29.180	992.2	7	.025	−6.1	−1.0	−8.3	ssw	9	0	0	0	0	------	u	30	Cloudless	Sea smoke N and NE.
	12	29.091	989.0	7	.040	7.7	9.5	−11.7	s	9	0	0	0	0	------	u	30	Cloudless	
	18	28.981	985.4	8	.050	1.6	11.6	−5.4	ssw	22	F	0	3	0	s	u	30	Lgt drift, low	3 masses AC over mtns ENE.
	24	28.881	982.0	8	.040	1.5	6.1	−3.9	ssw	20	F	0	3	0	s	u	30	Lgt drift, low	AC still in distant ENE.
November 6	06	28.806	979.5	7	.020	2.2	3.0	−4.3	ssw	25	F	0	3	0	s	u	6	Lgt drift, low	
	12	28.697	975.9	7	.045	−4.2	2.3	−4.8	sw	19	5	6	0	0	ne	u	1½	Hazy	
	18	28.588	972.1	6	.040	−1.0	−1.0	−5.7	sw	18	2	5	0	0	ne	u	10	Partly cloudy	E horizon white: drift?
	24	28.649	974.0	2	.025	3.4	6.2	−1.9	se	13	F	0	0	5	e	u	20	Ice crystals	Hvy SC, some AC to N.
November 7	06	28.742	977.3	2	.045	3.2	5.3	3.2	ese	17	F	0	0	5	ne	u	30	Cloudless	22° halo etc. 2400-0100.
	12	28.837	980.5	2	.060	−2.2	3.5	−2.7	se	15	F	0	0	5	e	u	30	Cloudless	AC&SC from NE 1030, gone 1130.
	18	28.902	982.6	2	.040	7.5	7.6	−4.4	ese	14	10−	0	7	5	e	7,000	20	Overcast	
	24	29.001	985.9	3	.045	16.0	17.0	5.9	e	21	10			3	0	e	7,000	10	Lgt drift, low
November 8	06	29.106	989.6	3	.050	11.2	17.0	6.4	e	16	5	0	3	0	e	7,000	20	Partly cloudy	AC cvrd N ½ sky; S clr.
	12	29.171	991.8	2	.025	1.0	12.8	0.5	ese	11	3	0	3	0	e	u	20	Partly cloudy	
	18	29.155	991.1	3	.000	10.4	10.4	0.0	ese	14	9	0	3	0	ne	5,000	20	Cloudy	
	24	29.134	990.4	3	.010	17.0	17.0	9.2	e	11	10−	0	0	5	e	5,000	20	Lgt snow, ocnl	

TABLE 11a.—*Little America III, six-hourly observations*—Continued

NOVEMBER 1940—Continued

Date	GMT	Pressure				Thermometers			Wind		Clouds						Vis. mi.	Weather	Notes
		Sta. (ins.)	S. L. mb.	3-hour char.	3-hour ins.	Dry °F.	Max. °F.	Min. °F.	Dir. from	Speed m. p. h.	Amt.	H	M	L	Dir. from	Cig. ft.			
November 9	06	29.109	989.8	7	.015	15.4	18.5	15.4	e	5	10–	0	0	5	ne	5,000	20	Overcast	Snow showers NE.
	12	29.092	989.0	7	.015	14.7	15.5	11.6	e	5	10–	0	0	5	w	6,000	15	Overcast	Lgt snow in big flakes, 07–09.
	18	29.065	988.1	8	.010	14.0	15.0	12.9	s	4	10			5	w	6,000	20	Overcast	Snow showers N.
	24	29.050	987.5	8	.005	16.5	17.0	12.4	se	7	10			5	w	6,000	20	Overcast	
November 10	06	29.058	987.9	3	.000	15.0	17.0	13.9	e	5	10			5	ne	5,000	15	Overcast	
	12	29.054	987.8	3	.000	11.9	15.0	7.8	ssw	2	10–	0	3	4	sw	5,000	30	Overcast	S hrzn clr; CU to N.
	18	29.071	988.5	3	.010	6.0	13.3	6.0	s	2	6	8	9	0	w	5,000	30	Cloudy	All clds to N.
	24	29.109	989.6	3	.010	13.9	19.6	5.3	w	6	5	6	9	7	w	u	20	Partly cloudy	Sky variegated.
November 11	06	29.139	991.2	2	.020	15.4	20.5	10.3	nne	10	10–	0	0	5	n	1,600	20	Overcast	Pack ice N hrzn, clr sea in.
	12	29.171	991.8	2	.020	10.4	17.5	9.6	ne	8	9	0	9	0	ne	3,500	25	Cloudy	
	18	29.184	992.1	3	.010	13.1	14.3	9.1	e	11	10			5	e	1,600	10	Overcast	
	24	29.203	993.0	3	.010	15.1	15.1	12.0	ese	11	10			5	e	1,500	10	Overcast	
November 12	06	29.204	993.0	3	.010	15.1	18.9	13.6	s	4	10			5	s	3,000	15	Overcast	
	12	29.165	991.4	7	.010	11.2	15.5	10.6	ssw	10	10			5	s	3,000	15	Overcast	
	18	29.082	988.7	8	.050	6.9	11.7	6.9	sw	12	7	0	0	6	sw	3,000	20	Lgt snow, ocnl	Flakes hard; mdt snow NW.
	24	28.990	984.7	7	.035	3.2	7.0	1.2	s	12	F	0	0	1	u	u	20	Ice crystals	22° & 46° halos & complex.
November 13	06	28.971	985.1	3	.000	2.4	5.5	−0.1	se	8	6	0	0	5	se	5,000	20	Cloudy	Clouded 0400–0500 on SE wind.
	12	28.910	983.1	7	.025	−7.4	3.2	−8.7	w	12	0	0	0	0	------	u	20	Ice crystals	Bright parhelia.
	18	28.823	980.2	7	.035	−6.2	−4.4	−9.1	wsw	8	0	0	0	0	------	u	20	Ice crystals	
	24	28.774	978.4	7	.020	−1.7	−1.7	−7.3	e	15	F	9	0	0	e	u	5	Cloudless	
November 14	06	28.788	979.0	3	.000	−3.2	−1.2	−4.3	ese	13	F	1	0	5	ne	u	20	Lgt drift, low	
	12	28.811	979.7	3	.010	−0.6	−0.4	−8.5	se	17	10			5	ne	2,000	4	Lgt snow, ocnl	Also lgt drift; 22° halo 08.
	18	28.856	981.2	2	.030	3.1	3.9	−0.7	e	16	10–	0	3	0	ne	5,000	10	Overcast	No open water vsbl; pack ice.
	24	28.907	982.9	2	.025	5.3	6.0	2.0	se	8	F	0	4	5	ne	u	30	Cloudless	Hvy CU–AC banks N.
November 15	06	28.929	983.6	2	.015	7.2	7.2	3.6	ese	15	10–	0	0	5	u	3,000	10	Lgt drift, low	
	12	28.958	984.5	2	.020	12.2	12.2	5.8	e	15	10			5	ne	4,000	8	Mdt snow shower	
	18	28.995	985.8	3	.025	9.0	12.6	7.5	e	11	10			5	e	4,000	10	Lgt snow, ocnl	Pack ice beyond open water.
	24	29.019	986.7	2	.020	15.2	15.2	8.1	e	15	10–	0	0	5	ne	3,000	10	Overcast	
November 16	06	29.021	986.7	3	.000	2.7	15.9	2.0	ese	7	1	1	0	5	se	u	30	Partly cloudy	
	12	28.999	986.0	8	.005	0.6	6.0	−0.5	s	7	8	0	5	0	ne	3,000	30	Cloudy	
	18	28.991	985.7	3	.000	2.5	2.5	−4.1	s	6	F	5	4	0	ne	u	30	Cloudless	CU N; CS stringers E hrzn.
	24	28.998	985.9	3	.000	13.4	17.7	1.0	------	0	F	5	0	0	u	u	30	Cloudless	
November 17	06	29.032	987.0	2	.005	11.2	15.5	7.9	------	0	F	1	7	0	s	u	30	Cloudless	
	12	29.083	988.9	2	.020	2.2	13.5	−5.3	ne	2	10–	1	0	5	nw	2,500	10	Overcast	Breeze began 0730; AC at 1000.
	18	29.148	990.8	2	.030	17.5	19.5	2.2	ne	4	10			5	n	2,500	5	Lgt snow, ocnl	Precip to N 1500.
	24	29.215	993.2	3	.030	22.1	25.0	17.5	n	3	10–	0	0	5	n	2,500	10	Overcast	
November 18	06	29.269	995.1	2	.020	16.8	22.2	16.7	e	9	10–	0	0	5	nw	3,000	15	Overcast	
	12	29.301	996.3	2	.025	12.7	16.9	11.6	sse	9	10			5	u	3,000	15	Overcast	
	18	29.331	997.3	2	.010	15.2	16.6	11.1	se	2	10			5	u	3,000	15	Overcast	
	24	29.333	997.3	3	.000	19.8	19.8	13.8	e	4	10			5	s	3,000	10	Overcast	
November 19	06	29.321	996.9	8	.015	16.1	19.8	14.9	e	4	10	7	0	5	sw	3,000	10	Overcast	
	12	29.287	995.8	7	.015	12.4	16.1	11.6	nne	9	10			5	u	3,000	1	Lgt snow, cont	Began 0900.
	18	29.267	995.1	8	.010	12.9	12.9	10.9	ne	13	10			5	u	3,000	10	Overcast	Snow ended 1600.
	24	29.272	995.2	3	.000	13.1	13.1	11.2	ne	10	10			5	u	3,000	10	Overcast	
November 20	06	29.235	994.0	7	.020	9.2	13.6	6.8	ene	11	9	0	3	0	sw	3,000	20	Cloudy	15 min sunshine 0500.
	12	29.211	993.2	7	.020	8.4	10.9	4.9	ne	13	9	0	3	0	sw	4,000	20	Cloudy	Clr SW&E hrzns since 0900.
	18	29.202	992.9	7	.005	11.0	11.0	5.8	nne	3	10–	0	3	5	w	2,000	20	Overcast	Clds thinned 1500–1700.
	24	29.239	994.2	3	.015	8.5	14.0	6.3	sw	11	10		2	0	sw	6,000	10	Overcast	Snow W&N; clr 1900–2000.
November 21	06	29.291	995.9	2	.025	8.2	8.9	6.3	ssw	16	10		2	0	w	2,000	10	Overcast	
	12	29.323	997.0	2	.020	9.4	9.7	7.2	w	5	10–	0	0	5	w	2,000	10	Overcast	Breaks to N.
	18	29.341	997.6	3	.000	8.5	10.5	6.9	sw	12	10			5	w	2,000	10	Overcast	
	24	29.301	996.3	7	.025	11.2	12.2	7.6	w	6	10			5	w	2,000	10	Overcast	
November 22	06	29.186	992.2	7	.060	9.0	12.7	7.1	s	4	10–	0	9	0	nw	5,500	20	Overcast	
	12	29.079	988.8	7	.040	4.5	13.0	3.5	se	8	9	6	7	5	nw	6,000	20	Cloudy	
	18	28.968	984.9	7	.040	8.0	8.1	−0.8	se	14	10–	6	5	5	nw	2,000	20	Overcast	
	24	28.894	982.4	8	.040	10.2	11.0	7.3	se	18	10–	2	7	5	s	4,000	15	Overcast	
November 23	06	28.853	981.0	7	.020	8.5	11.2	7.2	s	10	8	0	9	5	s	5,000	15	Cloudy	
	12	28.850	981.0	3	.000	3.4	8.9	2.3	s	16	8	0	9	7	sw	5,000	20	Cloudy	
	18	28.845	980.8	3	.000	4.0	4.0	0.0	s	13	9	0	3	5	se	5,000	20	Cloudy	
	24	28.853	981.0	3	.000	10.4	10.4	2.9	s	16	2	0	4	7	w	u	30	Partly cloudy	
November 24	06	28.854	981.0	3	.000	7.4	10.4	5.2	s	8	F	0	0	5	w	u	30	Cloudless	
	12	28.874	981.8	3	.005	2.7	7.4	−3.1	ese	3	9	0	3	4	sw	1,500	20	Cloudy	
	18	28.904	982.7	3	.010	10.2	10.2	2.7	ese	4	8	2	5	0	sw	u	20	Cloudy	
	24	28.919	983.1	2	.010	18.0	18.3	8.1	e	4	4	0	7	0	s	u	30	Partly cloudy	
November 25	06	28.916	983.1	7	.005	10.5	18.0	9.3	e	9	9	0	0	5	w	3,000	30	Snow grains	
	12	28.934	983.8	3	.000	−1.1	10.5	−1.7	e	13	F	0	7	0	sw	u	30	Cloudless	
	18	28.913	983.1	9	.005	5.0	5.0	−1.8	e	9	F	0	7	5	w	u	30	Cloudless	Clouds on horizons.
	24	28.895	982.4	7	.010	8.7	10.0	3.6	s	10	F	5	7	0	e	u	30	Cloudless	
November 26	06	28.847	980.9	7	.025	5.6	9.8	5.0	ese	13	F	1	1	0	e	u	30	Cloudless	
	12	28.814	979.8	7	.025	−0.8	6.0	−1.4	ese	16	F	0	7	0	w	u	30	Cloudless	
	18	28.799	979.2	7	.010	3.9	3.9	−1.1	se	17	1	0	7	0	w	u	5	Ice crystals	White 22° halo 1700.
	24	28.791	978.9	2	.000	10.2	10.2	2.7	e	16	1	5	5	0	ne	u	20	Lgt drift, low	
November 27	06	28.777	978.4	7	.005	6.2	10.2	5.0	ese	17	F	1	5	0	ne	u	20	Lgt drift, low	
	12	28.772	978.3	3	.000	2.2	6.2	0.7	e	20	1	1	0	4	u	u	2	Lgt drift, low	
	18	28.755	977.7	8	.010	4.8	4.8	0.9	ese	22	10–	9	5	5	n	5,000	½	Mdt drift, low	
	24	28.753	977.6	3	.000	8.4	8.8	4.1	e	25	X					0	½	Mdt drift, high	Also lgt snow, cont.
November 28	06	28.752	977.5	4	.005	11.2	11.2	8.2	e	22	9	0	0	5	n	3,000	5/16	Mdt drift, low	Also lgt snow, cont.
	12	28.750	977.5	3	.000	10.0	12.5	7.1	e	19	10			5	n	3,000	1	Lgt drift, low	Also lgt snow, cont.
	18	28.710	976.1	7	.030	15.3	17.3	9.2	se	15	10			5	n	3,000	¼	Mdt snow, cont	
	24	28.812	979.5	2	.045	17.1	24.4	15.0	wnw	10	6	0	7	5	nw	5,000	20	Cloudy	
November 29	06	28.886	982.1	2	.045	14.7	20.0	10.9	w	12	10–	0	0	5	nw	3,000	20	Overcast	Breaks to E.
	12	28.945	984.1	2	.025	10.5	15.3	9.8	w	14	10			5	nw	2,000	20	Overcast	Lgt snow 1000–1100.
	18	29.018	986.6	2	.030	9.0	11.0	7.9	w	7	10			5	u	2,000	10	Overcast	
	24	29.104	989.5	2	.045	9.9	12.3	8.0	ssw	11	10			5	nw	2,000	20	Overcast	
November 30	06	29.171	991.7	2	.045	11.0	12.2	8.3	wsw	5	10–	0	0	5	nw	3,500	10	Overcast	Breaks to E.
	12	29.200	992.8	2	.015	13.9	14.8	9.1	wnw	3	10–	0	3	0	sw	3,500	10	Overcast	
	18	29.236	994.1	2	.020	15.0	17.4	7.3	ne	8	9	0	3	0	nw	3,500	10	Cloudy	
	24	29.277	995.3	4	.030	16.5	17.2	12.9	ene	12	9	0	3	0	w	4,000	20	Cloudy	

TABLE 11a.—*Little America III, six-hourly observations*—Continued

DECEMBER 1940

Date	GMT	Pressure				Thermometers			Wind		Clouds						Vis. mi.	Weather	Notes
		Sta. (ins.)	S. L. mb.	3-hour char.	3-hour ins.	Dry °F.	Max. °F.	Min. °F.	Dir. from	Speed m. p. h.	Amt.	H	M	L	Dir. from	Clg. ft.			
December 1	06	29.266	995.1	3	.000	12.2	16.5	11.7	ese	12	8	1	7	5	wnw	5,000	20	Cloudy	
	12	29.285	995.8	3	.000	2.8	12.2	2.8	ese	17	2	0	7	0	e	u	30	Partly cloudy	
	18	29.311	996.6	3	.025	12.2	12.4	2.2	se	16	F	0	7	0	e	u	30	Lgt drift, low	
	24	29.314	996.7	2	.005	15.4	15.6	9.7	se	17	F	1	0	0	u	u	30	Lgt drift, low	
December 2	06	29.300	996.2	7	.015	10.2	16.1	10.1	ese	30	F	9	0	0	n	u	½	Mdt drift, low	
	12	29.312	996.6	2	.005	7.4	10.3	6.6	se	25	9	9	0	0	e	7,000	5/16	Mdt drift, low	
	18	29.283	995.7	7	.005	10.2	10.3	6.4	se	36	5	2	0	0	ne	u	1/16	Hvy drift, low	
	24	29.273	995.3	7	.015	13.2	13.5	10.0	ese	24	3	2	0	0	nw	u	⅛	Mdt drift, low	
December 3	06	29.254	994.7	7	.005	13.2	14.9	11.0	e	30	9	1	0	5	ne	u	5/8	Lgt drift, low	22° halo in drift 0425.
	12	29.227	993.7	7	.015	11.2	13.2	9.9	ese	29	X					0	5/16	Mdt drift, high	
	18	29.178	991.9	7	.030	11.9	12.0	10.0	ese	27	10			5	e	1,000	5/16	Mdt drift, low	
	24	29.134	990.4	7	.020	16.7	16.9	11.9	ese	26	10			5	e	1,000	5/16	Mdt drift, low	
December 4	06	29.074	988.4	7	.030	19.1	19.9	15.3	e	22	X					0	5/16	Mdt drift, high	
	12	29.028	986.8	7	.030	19.3	19.3	17.3	ese	23	X					0	5/16	Mdt drift, high	
	18	29.009	986.1	7	.010	27.0	28.2	20.0	ene	23	X					0	¼	Mdt drift, high	Also mdt snow; sun vsbl.
	24	29.000	985.8	7	.010	27.8	27.8	24.6	e	22	10			5	ne	2,000	5	Lgt drift, low	
December 5	06	29.000	985.9	7	.005	24.6	27.8	24.2	e	19	10		7	5	nw	4,000	10	Overcast	22° halo.
	12	28.991	985.6	3	.000	19.9	24.9	19.9	e	20	10		9	5	e	2,000	10	Overcast	
	18	28.997	985.8	2	.010	19.7	21.3	19.1	ese	19	10–	7	9	0	e	2,000	10	Lgt drift, low	
	24	29.029	986.9	2	.005	24.6	24.8	19.7	ese	17	10		9	0	e	2,000	10	Overcast	
December 6	06	29.064	988.0	2	.025	24.1	26.3	23.6	ese	15	10		9	0	ne	2,000	10	Overcast	
	12	29.111	989.6	3	.030	22.7	26.1	22.2	e	14	10–	9	7	8	ne	2,000	10	Overcast	
	18	29.181	991.9	3	.050	28.4	28.4	22.7	e	9	10			5	e	2,000	5	Milky	
	24	29.242	994.0	3	.030	32.3	32.3	27.9	e	8	10–	0	3	4	se	6,000	10	Overcast	
December 7	06	29.266	994.9	2	.020	29.5	42.7	28.5	s	5	8	9	3	0	se	6,000	20	Cloudy	Solar corona 0330.
	12	29.268	995.0	3	.000	18.2	29.5	18.2	s	8	F	1	0	0	se	u	30	Cloudless	
	18	29.266	995.0	3	.000	21.2	21.2	15.9	s	4	F	1	7	0	se	u	30	Cloudless	
	24	29.257	994.8	3	.000	26.9	26.9	19.1	s	4	F	1	0	0	nw	u	30	Cloudless	
December 8	06	29.249	994.3	8	.005	27.3	28.2	22.9	s	6	F	1	7	0	nw	u	30	Cloudless	
	12	29.250	994.5	3	.000	13.4	27.3	12.8	ssw	6	F	1	7	0	nw	u	30	Cloudless	
	18	29.253	994.6	3	.000	16.9	16.9	12.0	ssw	3	F	4	7	0	n	u	30	Cloudless	
	24	29.240	994.1	3	.000	23.5	23.5	15.7	ssw	10	F	4	0	0	n	u	30	Cloudless	
December 9	06	29.212	993.1	0	.020	19.8	23.5	18.6	s	8	3	4	5	0	n	u	30	Partly cloudy	Shelter moved 0500.
	12	29.212	993.2	7	.005	11.2	20.0	9.8	ssw	7	F	1	0	0	n	u	30	Cloudless	
	18	29.213	993.3	3	.000	10.0	12.0	6.6	sw	8	9	6	1	0	n	u	30	Cloudy	Clouds thin.
	24	29.221	993.5	3	.000	15.9	15.9	8.5	ssw	10	7	4	9	0	nw	u	30	Cloudy	
December 10	06	29.222	993.5	3	.000	12.4	15.9	12.2	sw	7	4	6	0	0	nw	u	20	Partly cloudy	
	12	29.233	994.1	3	.000	5.8	13.7	4.8	ssw	6	7	6	1	0	nw	u	20	Cloudy	
	18	29.228	993.8	3	.000	7.0	8.5	3.0	ssw	4	10–	6	1	0	nw	u	20	Overcast	Complete 22° halo; fog E.
	24	29.244	994.2	2	.005	17.0	17.0	5.3	se	7	10	6	1	0	n	u	20	Overcast	Halo continued.
December 11	06	29.263	995.0	3	.000	14.4	17.2	14.9	e	10	10	7	3	0	n	u	15	Overcast	
	12	29.294	996.0	2	.035	7.0	14.6	6.6	ese	12	9	9	3	0	n	u	20	Cloudy	
	18	29.336	997.5	7	.030	13.2	13.2	6.6	e	12	3	1	4	4	nw	u	30	Partly cloudy	Hvy SC NE from SE.
	24	29.413	1,000.0	2	.035	20.4	20.4	10.7	sse	11	3	2	9	0	s	u	30	Partly cloudy	
December 12	06	29.451	1,001.2	2	.020	17.0	21.6	16.9	sse	7	F	0	7	4	u	u	30	Cloudless	
	12	29.477	1,002.2	7	.020	10.2	17.9	8.5	ssw	5	3	6	0	5	w	u	30	Partly cloudy	
	18	29.487	1,002.5	3	.010	9.5	12.7	5.5	s	7	X					0	1/16	Mdt fog, incsg	Fog bow; rime.
	24	29.493	1,002.8	3	.000	13.9	13.9	9.1	s	6	3	2	0	6	s	u	30	Partly cloudy	Fog now SC roll to S.
December 13	06	29.464	1,001.8	3	.000	13.2	15.8	11.3	ssw	4	6	0	5	5	s	4,000	20	Cloudy	
	12	29.436	1,000.9	3	.000	8.0	15.0	5.3	s	4	3	6	0	4	sw	u	30	Partly cloudy	SC mvd in as fog, 1230, lftd.
	18	29.399	999.6	6	.005	10.0	11.8	5.1	se	7	3	0	7	4	sw	u	30	Partly cloudy	Fog bow; rime.
	24	29.359	998.2	7	.015	9.7	11.8	7.2	ssw	6	3	1	0	5	w	u	30	Ice crystals	Fog to S; corona.
December 14	06	29.346	997.8	7	.010	12.2	13.2	9.1	s	5	1	9	0	0	w	u	20	Partly cloudy	
	12	29.333	997.5	3	.000	5.1	13.0	5.1	ese	10	1	0	7	0	w	u	30	Partly cloudy	
	18	29.348	997.8	3	.000	7.6	8.2	3.2	ese	16	3	0	7	0	w	u	30	Partly cloudy	
	24	29.398	999.5	2	.025	10.2	10.2	7.3	se	16	10–	6	9	6	nw	6,000	30	Overcast	Faint halo
December 15	06	29.382	999.0	4	.010	13.9	15.0	9.9	se	13	4	9	9	0	nw	u	30	Partly cloudy	
	12	29.425	1,000.4	2	.010	10.4	14.0	8.9	se	16	9	9	3	0	nw	4,000	20	Lgt drift, low	
	18	29.431	1,000.7	2	.010	12.6	13.6	10.2	se	4	7	0	3	0	nw	4,000	30	Cloudy	Clds N&NE unusually red.
	24	29.421	1,000.2	3	.000	17.2	18.0	10.5	s	6	4	0	7	0	w	u	30	Partly cloudy	
December 16	06	29.385	999.0	8	.010	16.5	20.0	15.2	s	7	9	0	7	0	w	8,000	20	Cloudy	
	12	29.385	999.2	3	.000	5.8	18.3	5.5	s	6	8	4	7	0	sw	8,000	20	Cloudy	
	18	29.397	999.5	3	.000	9.6	11.1	5.2	se	11	7	6	7	0	w	8,000	30	Cloudy	Faint halo.
	24	29.404	999.7	3	.000	12.9	21.4	9.0	s	2	8	2	7	0	nw	u	30	Cloudy	Clouds thin.
December 17	06	29.402	999.6	3	.000	14.5	20.0	12.5	s	7	10–	6	5	0	sw	u	20	Overcast	
	12	29.433	1,000.8	2	.020	7.5	14.5	6.0	s	5	8	4	5	0	ne	u	30	Cloudy	Intermittent parhelia 07–12.
	18	29.456	1,001.5	2	.025	9.7	9.7	4.8	ssw	9	1	8	0	0	ne	u	30	Ice crystals	CS to E, SC W of Bay.
	24	29.507	1,003.2	2	.030	13.7	13.7	9.7	ssw	15	F	9	4	0	0	u	30	Ice crystals	AS distant E.
December 18	06	29.560	1,005.0	2	.035	15.1	15.1	12.5	ssw	10	F	1	0	0	sw	u	30	Cloudless	
	12	29.591	1,006.1	2	.020	9.5	15.1	8.5	sw	10	F	8	0	0	sw	u	30	Cloudless	CS & fog distant SE.
	18	29.613	1,006.9	3	.010	13.2	14.0	8.0	s	5	F	8	0	0	sw	u	30	Cloudless	Cloud bank distant NW.
	24	29.629	1,007.2	3	.000	21.0	21.9	11.4	s	2	F	8	0	0	sw	u	30	Cloudless	
December 19	06	29.619	1,007.0	3	.000	20.2	29.0	20.2	ene	4	7	0	3	6	nw	6,000	30	Cloudy	Hvy AC from NW 0530.
	12	29.569	1,005.2	6	.015	19.9	20.2	18.3	ne	10	10–	0	0	4	nw	6,000	10	Overcast	Lgt snow 1,000; shwrs vsbl.
	18	29.546	1,004.5	8	.010	21.2	23.0	19.1	ne	11	10			4	ne	6,000	10	Overcast	
	24	29.518	1,003.5	8	.015	25.5	25.5	20.8	ne	13	10			4	ne	6,000	10	Overcast	
December 20	06	29.463	1,001.7	8	.025	23.0	25.5	22.2	e	11	10			4	ne	2,000	10	Lgt snow, ocnl	
	12	29.436	1,000.8	8	.010	21.1	23.0	21.1	e	11	10			4	ne	2,000	10	Overcast	Snow showers in past hour.
	18	29.418	1,000.1	6	.010	22.7	22.7	20.7	e	12	10			3	ne	2,000	5	Lgt snow, ocnl	
	24	29.390	999.1	8	.020	28.0	28.0	21.8	e	23	10			4	ne	2,000	2	Lgt snow, cont	Also lgt drift, low.
December 21	06	29.334	997.2	7	.010	30.2	32.1	27.1	nne	11	10			4	ne	500	½	Mdt snow, cont	
	12	29.267	994.9	6	.040	29.6	30.2	28.5	n	13	10			4	ne	500	½	Mdt snow, cont	
	18	29.223	993.4	6	.015	30.8	32.0	29.4	nw	4	10			4	u	1,000	2	Lgt snow, cont	
	24	29.282	995.4	7	.030	32.2	32.9	28.2	sw	5	10			5	u	1,000	4	Overcast	Snowfall visible.
December 22	06	29.359	998.1	2	.035	23.7	32.5	23.3	ssw	12	10–	0	0	4	sw	2,000	10	Overcast	
	12	29.441	1,000.9	2	.035	23.2	24.9	21.7	s	7	10–	0	0	5	0	2,000	10	Overcast	Clear to SW.
	18	29.474	1,002.0	2	.020	16.9	23.3	16.3	ssw	10	10–	0	3	0	sw	4,000	20	Overcast	Clearing in SW.
	24	29.474	1,002.0	3	.000	17.9	17.9	14.7	s	12	2	1	3	0	sw	u	20	Partly cloudy	All clouds N½ of sky.
December 23	06	29.455	1,001.3	8	.010	16.4	17.9	15.2	sw	9	4	1	3	0	sw	u	30	Partly cloudy	
	12	29.472	1,002.0	3	.010	6.8	16.4	6.8	sw	8	1	1	7	0	w	u	30	Partly cloudy	Zenith clear, hrzns cldy.
	18	29.485	1,002.4	1	.010	9.8	13.0	6.1	w	4	X					0	½	Mdt fog, incsg	
	24	29.507	1,003.1	3	.010	21.5	21.5	8.3	w	7	3	4	0	7	nw	u	30	Partly cloudy	SC roll N.
December 24	06	29.522	1,003.6	3	.010	24.3	27.7	20.8	ne	2	10			5	u	1,000	6	Overcast	
	12	29.546	1,004.5	2	.015	22.0	24.3	21.1	se	6	10–	0	0	5	u	1,000	10	Overcast	
	18	29.597	1,006.2	2	.035	22.0	22.0	18.1	sw	5	7	0	3	0	n	4,000	15	Cloudy	
	24	29.634	1,007.4	3	.015	26.2	30.3	16.1	ene	10	8	9	3	0	n	4,000	20	Cloudy	

TABLE 11a.—*Little America III, six-hourly observations*—Continued

DECEMBER 1940—Continued

Date	GMT	Pressure				Thermometers			Wind		Clouds						Vis. mi.	Weather	Notes
		Sta. (ins.)	S. L. mb.	3-hour char.	3-hour ins.	Dry °F.	Max. °F.	Min. °F.	Dir. from	Speed m. p. h.	Amt.	H	M	L	Dir. from	Clg. ft.			
December 25	06	29.637	1,007.5	3	.000	25.7	27.0	24.3	ne	8	6	0	3	4	n	4,000	30	Cloudy	
	12	29.621	1,007.0	3	.000	23.4	27.7	19.7	e	10	9	0	3	4	n	3,000	20	Cloudy	Snow grains 0630, hvy 0730.
	18	29.558	1,004.9	7	.035	21.8	25.1	20.1	e	17	9	0	0	5	e	3,000	5	Snow grains	
	24	29.432	1,000.6	7	.075	22.3	22.3	18.5	ese	16	F	0	7	4	u	u	30	Lgt drift, low	
December 26	06	29.199	992.7	7	.090	20.1	22.3	16.5	se	29	10	----	----	5	u	1,000	1/2	Mdt drift, low	
	12	28.939	983.8	7	.125	20.7	21.8	19.7	ese	34	X	----	----	----	----	0	1/16	Hvy drift, high	
	18	28.822	979.7	6	.030	29.6	29.6	20.7	e	22	10	----	----	5	u	1,000	5/16	Mdt drift, low	
	24	28.849	980.6	4	.010	29.8	30.7	27.3	e	9	10	----	----	5	e	1,000	10	Overcast	Lgt rain 2200 left glaze.
December 27	06	28.893	981.8	2	.010	32.8	33.2	29.0	n.	9	10—	0	9	6	n	3,000	10	Overcast	
	12	28.936	983.6	2	.020	27.8	32.9	26.2	ne	4	10	----	2	4	ne	3,000	10	Overcast	
	18	28.940	983.7	3	.000	31.0	31.0	27.3	e	6	10	----	----	5	u	3,000	4	Milky	
	24	28.928	983.3	8	.005	32.2	32.9	30.7	n	9	10	----	----	5	u	1,000	3/4	Lgt rain, ocnl	Also lgt snow.
December 28	06	28.931	983.4	3	.000	31.0	32.5	30.3	ne	11	10	----	----	5	n	1,000	3/4	Lgt rain, cont	Also lgt snow and fog.
	12	28.973	984.9	1	.015	31.0	32.9	30.6	n	13	10	----	----	5	u	1,000	1	Lgt rain, cont	Also some lgt snow.
	18	28.994	985.6	3	.005	30.0	31.0	29.9	n	14	10	----	----	5	u	1,000	2	Lgt rain, cont	Also some lgt snow.
	24	28.958	984.3	9	.010	31.2	33.1	29.3	e	13	10—	0	3	6	e	500	10	Overcast	Rain was very fine.
December 29	06	28.866	981.3	7	.035	28.6	31.9	28.6	sse	12	10	----	2	4	e	3,000	10	Overcast	
	12	28.840	980.4	6	.025	22.4	29.0	22.2	ssw	5	10—	0	7	6	s	1,500	10	Overcast	
	18	28.834	980.2	7	.005	25.4	25.4	19.8	s	10	10	4	0	6	s	500	3/4	Lgt fog, incsg	Also ice crys; fog hvy 8
	24	28.853	980.8	3	.005	30.2	30.2	24.4	sw	10	10	----	----	5	u	1,500	1 1/2	Lgt rain, cont	
December 30	06	28.858	981.0	3	.000	29.9	30.6	28.1	w	11	10	----	----	5	u	1,500	2	Lgt rain, cont	
	12	28.890	982.0	3	.020	27.4	30.0	27.2	sw	12	10	----	----	5	u	1,000	5	Overcast	
	18	28.947	984.1	2	.030	25.3	27.6	24.5	w	9	10	----	----	5	u	1,000	8	Overcast	
	24	29.000	985.8	3	.030	30.8	31.1	25.1	n	7	10	----	----	5	u	1,000	5	Overcast	
December 31	06	29.028	986.7	3	.010	31.2	34.0	29.3	n	3	10	----	----	5	ne	1,500	5	Lgt snow shwrs	
	12	29.056	987.7	2	.020	29.2	31.2	28.2	n	4	10	----	----	5	ne	1,500	5	Lgt snow, ocnl	
	18	29.060	987.8	3	.000	30.4	30.4	28.5	ne	5	10	----	----	5	u	1,500	2	Lgt snow, cont	
	24	29.076	988.5	3	.005	34.0	35.0	30.0	n	5	10	----	7	5	ne	1,500	10	Lgt overcast	Therm whirled outside: 32S.
JANUARY, 1941																			
January 1	06	29.060	988.0	3	.000	32.0	35.9	30.0	n	4	10	----	----	5	u	500	1/2	Moderate snow	
	12	29.069	988.3	3	.005	29.8	32.0	29.4	nnw	11	10	----	----	5	ne	1,500	5	Overcast	
	18	29.083	988.8	3	.005	28.7	29.9	27.8	n	8	10	----	----	5	n	1,500	8	Overcast	
	24	29.083	988.8	3	.000	33.0	33.0	28.1	n	14	10	----	----	5	u	500	5	Lgt snow, cont	
January 2	06	29.068	988.2	8	.005	29.9	32.8	29.5	ene	13	10	----	----	5	u	500	1/2	Mdt snow, cont	
	12	29.092	989.1	3	.010	27.4	30.0	27.0	ene	21	10	----	----	5	u	500	3/4	Mdt snow, cont	
	18	29.128	990.3	2	.025	28.3	28.3	26.2	ene	17	10	----	----	5	ne	1,500	5	Lgt drift, low	
	24	29.169	991.7	3	.025	28.0	29.9	25.5	e	12	5	0	7	0	ne	3,000	10	Partly cloudy	22° halo, no parhelia or other arcs.
January 3	06	29.183	992.3	3	.005	24.2	29.5	22.4	ene	9	3	2	7	0	ne	u	20	Partly cloudy	
	12	29.211	993.4	3	.020	14.8	24.6	14.8	e	12	3	4	0	0	ne	u	20	Partly cloudy	09-12 parhelia in ice crystals.
	18	29.220	993.6	3	.000	20.2	20.2	14.4	ese	9	4	4	0	0	e	u	10	Partly cloudy	
	24	29.212	993.4	3	.000	26.5	26.5	18.6	sse	9	10	----	2	0	u	3,000	5	Overcast	
January 4	06	29.166	991.6	7	.020	23.0	28.0	22.0	s	9	10—	0	3	0	s	3,000	10	Overcast	
	12	29.121	990.1	7	.025	24.4	25.0	22.4	sse	6	10	----	2	0	se	600	3	Overcast	
	18	29.077	988.7	6	.020	21.9	24.5	21.5	se	12	10	----	2	0	u	1,600	8	Overcast	
	24	29.056	987.9	7	.010	21.0	22.5	19.5	ese	11	10	----	2	0	u	1,500	8	Overcast	
January 5	06	29.040	987.4	8	.005	19.2	21.2	18.8	se	8	10	----	2	0	s?	1,500	10	Overcast	
	12	29.069	988.4	3	.005	18.4	19.6	17.2	se	7	10	----	2	0	se	1,000	10	Overcast	
	18	29.087	989.0	3	.010	18.4	18.4	16.1	se	4	10	----	2	0	se	1,000	10	Overcast	
	24	29.094	989.2	3	.005	21.4	23.0	16.5	ese	9	10	----	2	0	se?	1,000	5	Overcast	
January 6	06	29.092	989.2	3	.000	21.4	23.0	20.0	s	9	10	----	2	0	s?	1,000	5	Overcast	
	12	29.095	989.2	3	.000	21.0	21.5	20.3	sw	5	10	----	2	0	se?	1,000	5	Overcast	
	18	29.079	988.8	3	.000	23.4	23.4	20.3	sw	3	10	----	2	0	se?	1,000	5	Overcast	
	24	29.076	988.6	8	.010	24.1	32.1	22.5	s	8	10	----	2	0	u	1,000	8	Overcast	
January 7	06	29.033	987.2	7	.030	22.9	25.0	22.2	s	9	10	----	2	0	u	3,000	5	Overcast	Snowing at 0900.
	12	29.011	986.4	7	.025	20.3	23.5	19.8	s	4	10	----	2	0	s	3,000	5	Ocnl lgt snow	At 1300 edge of solid ovc passed (S to N, receding as SC wall several thsd ft thick, followed by AC).
	18	28.962	984.8	8	.035	19.8	24.7	16.3	sw	6	10	----	3	6	s	3,000	8	Overcast	
	24	28.901	983.8	7	.030	21.0	20.9	17.9	ssw	14	10	----	3	0	s	3,000	10	Overcast	
January 8	06	28.815	979.8	7	.040	19.6	21.0	18.6	sw	7	10	----	3	0	sw	3,000	10	Overcast	
	12	28.714	976.4	8	.070	19.9	21.0	18.5	sw	8	10	----	3	6	sw	2,000	10	Light snow	Sky clrd from SW 1400.
	18	28.643	974.0	7	.050	14.2	20.0	12.8	sw	10	10—	0	1	6	sw	2,000	10	Lgt ice crystals	Crystals not seen but felt on face.
	24	28.584	972.0	7	.060	16.4	16.4	11.8	sw	10	10—	0	0	4	sw	1,000	15	Overcast	Clouds thin.
January 9	06	28.530	970.1	6	.040	17.5	22.4	14.4	s	5	10	----	----	5	s	1,000	5	Light snow	
	12	28.532	970.3	3	.000	14.4	17.9	14.4	s	6	10	----	2	0	s	1,000	5	Overcast	
	18	28.560	971.3	3	.005	15.5	15.5	12.0	s	3	10—	0	2	0	s	1,000	5	Overcast	
	24	28.614	973.1	3	.030	16.0	20.4	14.2	e	12	3	4	1	0	u	u	20	Partly cloudy	
January 10	06	28.680	975.3	2	.035	13.0	18.0	12.4	e	12	4	0	3	0	nw	u	10	Partly cloudy	Lgt ice crystals 0200; SC ovr sea; FC from E; ovc by 0700; fog ovr water.
	12	28.767	978.3	2	.040	10.2	13.2	7.6	e	16	10—	0	3	6	nw	4,000	4	Overcast	
	18	28.861	981.4	2	.045	13.1	14.0	10.2	e	15	10—	0	3	6	n	4,000	4	Overcast	
	24	28.978	985.3	2	.005	18.9	18.9	12.9	e	15	2	0	0	0	n	u	20	Lgt ice crystals	
January 11	06	29.098	989.4	3	.060	15.4	18.7	15.4	e	16	F	0	7	0	ne	u	20	Cloudless	
	12	29.214	993.5	3	.055	7.8	15.4	7.8	e	7	7	1	3	0	ne	6,000	20	Cloudy	Solid AC from NE; SE & NW hrzn clr.
	18	29.291	996.0	2	.040	18.3	18.3	5.9	w	6	10—	0	3	0	ne	6,000	20	Overcast	
	24	29.370	998.7	3	.035	24.5	24.8	17.4	w	9	9	0	3	0	ne	u	20	Cloudy	
January 12	06	29.416	1,000.2	2	.020	24.1	26.2	21.4	sw	5	3	0	7	0	e	u	20	Partly cloudy	
	12	29.457	1,001.7	2	.020	10.5	26.1	10.5	w	4	F	0	0	1	u	u	20	Cloudless	
	18	29.467	1,002.1	3	.000	9.6	11.6	5.7	sw	8	10	0	1	0	n	1,000	10	Overcast	
	24	29.477	1,002.3	2	.010	18.3	18.3	9.5	sw	10	10	0	1	0	sw	1,000	5	Overcast	

TABLE 11a.—*Little America III, six-hourly observations*—Continued

JANUARY 1941—Continued

Date	GMT	Pressure				Thermometers			Wind		Clouds						Vis. mi.	Weather	Notes
		Sta. (ins.)	S. L. mb.	3-hour char.	3-hour ins.	Dry °F.	Max. °F.	Min. °F.	Dir. from	Speed m. p. h.	Amt.	H	M	L	Dir. from	Clg. ft.			
January 13	06	29.445	1,001.2	8	.010	21.6	24.8	16.5	ssw	8	10−	0	3	0	sw	4,000	10	Overcast	1/10 cldy 07–09, when fog formed to W.
	12	29.439	1,001.1	0	.000	21.0	22.0	18.0	s	6	10	0	2	0	sw	1,000	3	Overcast	Foggy 1000, lifting to ST by 1100.
	18	29.394	999.5	6	.020	22.8	23.7	19.8	s	5	10	0	2	0	u	1,000	5	Overcast	
	24	29.350	998.0	7	.020	25.1	25.3	23.5	ese	6	10	0	2	0	u	1,000	10	Overcast	
January 14	06	29.290	996.0	7	.030	20.3	25.7	20.0	se	13	10	0	2	0	u	1,000	8	Overcast	
	12	29.228	993.9	7	.035	14.6	20.4	13.5	se	22	10−	0	0	6	se	1,000	5	Overcast	Wind incsd, clds broke by 1500.
	18	29.125	990.4	7	.050	14.5	15.5	13.2	s	14	F	0	4	4	se	u	30	Cloudless	AC 1700–1730, wind shifts to S.
	24	29.026	987.0	7	.055	15.8	16.0	12.4	e	19	F	0	0	4	u	u	10	Lgt drift, low	
January 15	06	28.960	984.7	7	.040	16.4	17.5	14.9	e	20	0	0	0	0			20	Lgt drift, low	
	12	28.893	982.6	7	.035	10.1	17.4	10.1	se	14	F	0	7	0	s	u	20	Cloudless	Few AC extreme SW hrzn.
	18	28.814	979.9	6	.025	13.3	13.3	8.6	se	16	3	6	0	0	sw	u	20	Partly cloudy	
	24	28.762	978.0	7	.030	19.1	19.1	12.8	se	14	9	4	0	0	sw	u	10	Cloudy	
January 16	06	28.720	976.6	7	.020	17.3	20.4	17.3	se	14	1	1	0	0	sw	u	10	Partly cloudy	
	12	28.698	975.9	7	.010	10.6	17.6	9.7	se	14	1	1	0	0	sw	u	20	Partly cloudy	
	18	28.686	975.5	3	.000	12.1	13.1	8.1	s	7	F	1	0	0	sw	u	30	Cloudless	
	24	28.692	975.7	3	.000	17.7	18.4	10.2	s	9	F	4	0	0	sw	u	30	Cloudless	
January 17	06	28.674	975.1	7	.015	10.5	17.9	10.5	s	11	3	4	0	0	sw	u	30	Partly cloudy	
	12	28.682	975.4	3	.000	6.2	11.2	4.4	s	7	9	0	1	0	w	2,000	8	Cloudy	
	18	28.692	975.8	3	.000	8.6	8.6	6.2	ssw	5	10	----	1	0	w	2,000	5	Fog in patches	
	24	28.708	976.2	2	.015	11.2	13.2	6.8	s	3	10	----	2	0	sw	1,000	2	Lgt snow, cont	
January 18	06	28.713	976.4	3	.005	12.4	13.5	10.0	se	7	10	----	2	0	u	1,000	2	Lgt snow, cont	
	12	28.716	976.5	3	.000	10.9	12.2	10.7	se	7	10	----	2	4	u	1,000	3	Lgt snow, cont	
	18	28.711	976.3	3	.000	11.9	12.0	10.5	se	11	10	----	2	0	u	1,000	5	Lgt snow, ocnl	
	24	28.730	976.9	2	.015	16.0	16.6	11.3	se	8	10	----	2	0	u	u	5	Overcast	
January 19	06	28.729	976.9	3	.000	13.1	17.2	12.9	s	6	4	4	0	4	s	u	20	Partly cloudy	CU from N.
	12	28.726	976.9	3	.000	10.9	14.4	8.2	sse	4	9	4	3	0	n	3,000	10	Cloudy	
	18	28.682	975.4	8	.010	13.0	10.4	13.0	s	9	10−	0	2	0	u	3,000	10	Overcast	Snowing to N.
	24	28.704	976.1	6	.010	15.8	15.8	12.4	s	14	10	----	2	0	u	2,000	5	Overcast	
January 20	06	28.691	975.6	3	.000	22.5	23.0	14.8	e	10	10−	0	2	4	e	2,000	5	Overcast	
	12	28.725	976.8	3	.015	15.0	22.5	15.0	e	11	10−	0	3	4	e	6,000	10	Overcast	
	18	28.745	977.4	4	.020	16.7	16.7	14.1	e	10	10−	0	3	0	e	8,000	10	Overcast	
	24	28.791	978.9	2	.020	17.5	18.0	15.9	e	10	9	4	3	0	n	7,000	20	Cloudy	CI from W.
January 21	06	28.819	980.0	3	.010	17.4	19.0	16.9	e	5	10−	2	3	4	ne	7,000	20	Overcast	
	12	28.857	981.2	2	.025	13.3	17.0	13.1	se	8	10−	2	3	0	e	7,000	20	Overcast	Snowing to NE.
	18	28.889	982.4	3	.015	13.6	14.0	12.6	ese	9	10−	0	3	0	se	7,000	20	Overcast	
	24	28.925	983.5	2	.020	19.4	19.4	13.4	se	10	10−	0	3	0	e	7,000	20	Overcast	
January 22	06	28.914	983.1	3	.000	19.6	20.3	18.0	ese	9	8	2	7	2	se	7,000	20	Cloudy	Fog formed over bay 1000.
	12	28.928	983.7	3	.000	11.1	19.5	10.2	e	9	6	2	3	2	s	7,000	10	Cloudy	Foggy 1100–1130; rime.
	18	28.934	983.8	3	.000	22.5	24.0	11.0	sse	3	X	----	----	----		0	⅛s	Thick fog, incsg	Fog began 1600.
	24	28.943	984.1	3	.010	23.1	27.0	19.4	e	2	2	0	7	0	u	u	20	Partly cloudy	
January 23	06	28.937	983.9	3	.000	23.4	25.0	19.1	e	8	9	0	7	2	n	3,000	8	Cloudy	1″ hvy snow 0700–0900.
	12	28.951	984.4	3	.005	24.0	26.7	22.7	ne	10	10−	0	9	6	ne	3,000	10	Overcast	Snow visible.
	18	28.982	985.5	2	.020	21.9	26.2	21.9	ne	14	10−	0	7	6	ne	3,000	5	Lgt snow, ocnl	
	24	29.037	987.3	2	.035	22.8	23.6	21.7	e	17	10−	0	2	6	e	3,000	5	Lgt snow, cont	
January 24	06	29.104	989.6	2	.030	20.0	22.8	18.6	ese	14	8	9	7	0	se	6,000	10	Cloudy	
	12	29.154	991.2	2	.025	17.4	20.0	15.3	s	10	10−	0	7	6	se	6,000	8	Overcast	
	18	29.165	991.6	3	.000	14.9	18.3	7.0	s	19	6	6	5	0	s	6,000	10	Cloudy	
	24	29.162	991.5	3	.000	18.4	18.4	14.1	s	20	X	----	----	----		0	¼s	Hvy drft, high	Also hvy snow, cont.
January 25	06	29.125	990.4	7	.015	14.4	18.8	13.7	ssw	19	X	----	----	----		0	½	Mdt drft, high	Also modt snow, cont.
	12	29.049	987.8	7	.030	11.6	14.8	11.2	ssw	17	10−	0	9	0	se	4,000	¾	Mdt drift, low	
	18	28.968	985.0	7	.035	14.9	14.9	10.6	ssw	16	10	0	0	5	s	2,000	5	Lgt snow, ocnl	
	24	28.924	983.5	7	.025	18.1	18.4	13.9	s	7	9	2	3	0	e	2,000	10	Cloudy	
January 26	06	28.894	982.5	7	.005	17.0	19.8	17.0	s	11	10−	0	0	5	s	2,000	10	Overcast	Only clr area to SW.
	12	28.900	982.8	3	.000	13.5	17.2	13.2	sse	13	10−	0	3	0	s	5,000	15	Overcast	
	18	28.938	984.0	4	.010	15.1	15.1	9.2	se	15	10−	0	3	4	ne	2,000	5	Overcast	Clr SW; CU to NE.
	24	29.093	989.2	2	.035	20.7	20.7	14.8	e	14	10−	0	3	4	ne	6,000	20	Overcast	
January 27	06	29.068	988.3	3	.050	24.9	27.3	19.9	ne	10	9	0	3	8	ne	4,000	10	Cloudy	Snow showrs, 0500–0600.
	12	29.070	988.4	2	.050	22.2	25.0	20.0	ene	11	10−	0	3	8	ne	4,000	10	Overcast	
	18	29.271	995.4	2	.050	15.8	22.2	13.1	e	15	4	0	3	8	ne	4,000	20	Partly cloudy	
	24	29.363	998.4	7	.035	20.5	21.4	14.8	e	17	9	0	6	4	nw	3,000	5	Cloudy	Rain or snow over bay.
January 28	06	29.378	998.9	3	.000	16.1	21.3	16.1	e	10	1	0	0	4	sw	u	20	Partly cloudy	
	12	29.329	997.4	8	.015	9.7	15.8	8.8	e	7	7	0	3	0	nw	3,000	15	Cloudy	
	18	29.252	994.8	8	.030	6.8	15.8	4.1	e	8	F	0	7	0	u	u	20	Cloudless	
	24	29.189	992.5	7	.035	10.8	11.8	5.2	ssw	11	F	0	7	0	sw	u	30	Ice crystals	
January 29	06	29.135	990.8	6	.015	13.3	14.0	5.2	ssw	5	F	1	0	0	sw	u	30	Ice crystals	
	12	29.132	990.8	4	.005	−0.4	13.5	−2.7	w	3	F	1	0	6	sw	u	30	Cloudless	
	18	29.184	992.4	2	.020	−1.0	1.9	−7.9	ssw	4	X	----	----	----			½	Mdt fog, incsg	Rime; thin fog bow.
	24	29.231	994.0	2	.030	10.8	10.8	−1.0	se	6	6	4	0	0	se	u	5	Ice crystals, hvy	Fog ended 2000; crystals halos.
January 30	06	29.245	994.6	2	.010	7.2	10.8	7.2	se	9	9	0	3	0	nw	6,000	20	Cloudy	
	12	29.231	994.0	7	.005	13.3	13.3	7.1	ese	14	9	0	3	0	nw	6,000	10	Cloudy	
	18	29.190	992.5	7	.020	17.7	17.7	13.1	e	16	10−	0	3	0	nw	6,000	10	Overcast	
	24	29.172	991.8	7	.020	24.0	24.0	17.4	se	17	8	0	3	0	w	6,000	15	Lgt drigt, low	
January 31	06	29.149	991.1	6	.005	19.2	23.8	19.2	se	18	10−	0	3	0	nw	6,000	10	Lgt drift, low	
	12	29.168	991.7	3	.000	15.2	19.2	15.1	se	22	10−	0	3	0	se	4,000	10	Lgt drift, low	Hrzn clr SSE to WSW.
	18	29.165	991.6	3	.000	16.3	16.3	15.0	se	25	7	4	7	0	nw	u	2	Lgt drift, low	Few ice crystals.
	24	29.171	991.7	3	.005	17.8	17.8	16.4	se	28	3	4	7	0	u	u	2	Lgt drft, low	Few ice crystals.

TABLE 11b.—*Six-hourly observations, Seismic Station*

NOVEMBER, 1940

Date	GMT	Pressure (ins.)	Thermometers			Wind		Clouds			Cig., ft.	Vis., mi.	Weather	Notes
			Dry	Max.	Min.	From	M. p. h.	Amt.	Kind	From				
November 1	18	27.575	16.4				0	3	CI?	u	u	15	Partly cloudy	
November 3	06	27.900	7.0	16.9	7.0		0	0			u	30	Cloudless	First obsn in 36 hours.
	24	28.045	6.3	16.4	−0.2	nw	3	5	CI	n	1,500	20	Cloudy	
November 4	06	28.050	−1.8	10.2	−1.8	nw	2	2	CI	n	1,500	20	Partly cloudy	
	18	27.960	10.8	14.2	−2.0		0	0			u	30	Cloudless	
	24	27.860	8.8	20.8	5.3	nw	5	0			u	30	Cloudless	
November 5	06	27.735	4.9	15.7	4.7	nw	2	0			u	30	Cloudless	
	24	27.490	8.3	16.3	−3.8	nw	3	3	SC	ne	8,000	30	Partly cloudy	
November 6	06	27.380	−1.0	10.2	−1.0	n	14	10	ST	n	5,000	½	Mdt fog	
	24	27.350	15.7	17.6	−2.4	nne	8	3	ST	ne	u	20	Partly cloudy	Wind N. 20 m. p. h. at 2200.
November 7	06	27.460	17.2	20.3	10.8		0	5	SC	ne	6,000	20	Cloudy	
	24	27.785	17.8	19.8		ne	27	7	SC	ne	6,000	3	Lgt drift	Min. therm shaken by wind.
November 8	06	27.855	15.5	19.7	1.0	ne	25	8	SC	ne	6,000	5	Lgt drift	Max. therm broken.
	24	27.865	18.8		7.9	ne	5	7	SC	ne	6,000	20	Cloudy	
November 9	06	27.805	20.8		10.0		0	9	ST	ne	6,000	20	Cloudy	
November 10	24	27.845	15.0		4.7	nne	4	1	AS	ne	u	10	Partly cloudy	First obsn in 42 hours.
November 11	06	27.845	9.7		7.4	n	2	2	AS	n	u	15	Partly cloudy	Low cloud bank SW.
	12	27.870	7.6		6.4	ne	2	F	CS	n	u	25	Cloudless	
	24	27.865	20.3		5.3		0	1	AS	nne	u	25	Partly cloudy	
November 12	06	27.840	7.7		7.7	wnw	2	10	ST	u	5,000	15	Overcast	
	24	27.640	3.0		0.3	ene	4	10	ST	u	4,000	1	Partly cloudy	Lgt snow at 1100.
November 13	24	27.485	9.8		−4.2	ne	7	0			u	30	Cloudless	
November 14	06	27.470	7.6		4.2	ne	1	0			u	30	Cloudless	
	12	27.500	7.2		5.8	n	4	F	SC	se	u	20	Cloudless	
	24	27.630	15.2		1.7		0	1	AS	e	u	25	Partly cloudy	
November 15	06	27.665	4.0		3.9	n	8	1	AS	n	u	25	Partly cloudy	
	12	27.705	0.0		−0.4	nne	18	8	AC	nne	8,000	15	Cloudy	
	24	27.725	14.3		0.0	ne	2	10−	SC	ne	5,000	10	Overcast	
November 16	06	27.680	9.8		7.9	wsw	4	2	SC	se	u	20	Partly cloudy	
	12	27.645	6.4		2.8	ne	1	3	AC	se	u	25	Partly cloudy	
	18	27.675	18.8		6.4	nne	2	5	AC	ene		20	Cloudy	
	24	27.695	22.8		14.6	n	1	3	AC	ne	u	30	Partly cloudy	
November 17	06	27.765	17.6		13.7	n	2	4	AC	nne	u	30	Partly cloudy	
	24	27.925	16.8		4.2	ese	2	10−	ST	nw	3,000	10	Overcast	
November 18	12	27.985	9.0		8.9	ne	4	10	ST	u	3,000	10	Overcast	
	24	27.985	13.3		2.3	sse	4	10−	ST	se	1,000	10	Overcast	
November 19	06	28.005	6.8		6.7	ne	11	10−	ST	ne	500	10	Overcast	
	12	27.980	1.2		1.0	n	8	4	ST	n	u	10	Partly cloudy	
	24	27.960	9.0		−2.0	ne	17	10	ST	ne	500	5	Overcast	
November 20	06	27.940	7.1		7.0	ese	13	10	ST	ne	500	5	Overcast	
	12	27.920	1.6		1.0	nne	5	4	ST	ne	u	15	Partly cloudy	
	24	27.925	8.9		1.6	nw	14	F	ST	nw	u	50	Cloudless	
November 21	06	27.940	4.5		4.5	wnw	12	0			u	50	Cloudless	Mdt fog from W 0715; vis ¼.
	24	27.985	8.3		−1.0	wnw	17	10	ST	wnw	1,500	3	Overcast	
November 22	06	27.885	6.3		6.2	nne	4	10	ST	nnw	1,500	20	Overcast	
	12	27.795	12.2		6.1	sw	2	10−	ST	nw	1,500	5	Lgt snow	
	24	27.555	27.0		12.2		0	10	ST	n	1,500	4	Lgt snow & fog	
November 23	06	27.510	14.5		11.2	nw	3	9	AS	nw	2,500	3	Lgt snow & fog	
	12	27.485	9.2		7.6	ssw	2	10−	AS	sw	2,500	3	Lgt snow & fog	
	24	27.505	9.0		1.2	ssw	5	8	ST	ssw	1,000	15	Cloudy	
November 24	06	27.530	0.2		0.2	wnw	5	1	ST	s	u	20	Partly cloudy	
	24	27.605	10.8		−3.8	sw	5	10−	ST	sw	1,500	15	Overcast	
November 25	06	27.610	10.4		8.1	s	2	10	ST	s	1,500	15	Overcast	
	12	27.605	5.3		4.3		0	10−	ST	s	1,500	20	Overcast	
November 26	06	27.525	12.2		4.0		0	4	AC	sw	u	30	Partly cloudy	
	24	27.525	16.2		4.3	sse	2	F	ST	sw	u	25	Cloudless	
November 27	06	27.505	14.2		11.9	nw	1	1	ST	nw	u	50	Partly cloudy	
	18	27.495	20.0		6.4		0	6	AS	nw	4,000	50	Cloudy	
	24	27.505	23.0		19.5	nw	2	6	AS	nw	4,000	50	Cloudy	
November 28	06	27.525	22.0		19.7		0	10−	AS	nw	4,000	20	Overcast	
	24	27.595	17.9		*10.0*	nnw	30	4	AC	nnw	u	5	Lgt drift, low	
November 29	06	27.670	14.2			nnw	24	7	AC	nnw	5,000	8	Lgt drift, low	Min therm shaken by wind.
	24	27.740	15.0		10.0	nw	20	10	ST	nw	2,000	8	Lgt drift, low	

▼92798—49——7

TABLE 11b.—*Six-hourly observations, Seismic Station*—Continued

DECEMBER 1940

Date	GMT	Pressure (ins.)	Thermometers			Wind		Clouds			Cig., ft.	Vis., mi.	Weather	Notes
			Dry	Max.	Min.	From	M. p. h.	Amt.	Kind	From				
December 2	06	27.975	13.8			se	11	1	CS	nw	1,500	25	Partly cloudy	
	18	27.980	20.0		9.3	se	1	9	CS	u	1,500	25	Cloudy	First obsn in 54 hours.
	24	27.945	18.2		17.2	se	6	10	CS	u	5,000	25	Cloudy	
December 3	12	27.925	21.1			n	28	10	ST	n	4,000	3	Lgt snow, ocnl	Wind N at 1000; insed to 25 mph.
December 4	06	27.835	25.0			nne	37	10	ST	n	3,000	3	Lgt drift, low	Wind abated 1330; at 1600, NW 35 mph.
	12	27.860	25.0		21.3	nne	23	10	ST	n	3,000	3	Lgt drift, low	
	24	27.720	20.3		20.0	sw	10	9	FC, AC	sw	7,000	8	Cloudy	
December 5	06	27.755	22.1		19.3	ese	4	9	ST, AC	ese	8,000	20	Cloudy	
	24	27.780	28.9		20.0	ne	13	8	SC, AC	ne	8,000	25	Cloudy	
December 6	06	27.795	25.8		20.8	ne	25	9	SC, AC	ne	8,000	10	Cloudy	
	12	27.900	22.4		21.2	ne	12	10–	SC, AS	ne	8,000	20	Overcast	
December 7	06	27.995	32.4		22.4	sse	2	2	ST	sse	u	20	Partly cloudy	
December 8	06	27.885	28.5		21.8	w	4	4	AS	nw	u	30	Partly cloudy	
	18	27.895	28.5		20.0	w	5	3	AS	u	u	30	Partly cloudy	
December 9	06	27.905	30.1		23.7		0	5	CI	u	u	30	Cloudy	
	12	27.865	23.7		21.1	wnw	4	3	CI, AS	nw	u	30	Partly cloudy	
December 10	06	27.870	23.2		22.8	w	7	9	CI	wnw	u	30	Cloudy	
	24	27.950	33.5		21.0	ese	3	10–	CS, AS	ne	8,000	30	Overcast	22° halo 1000–1600.
December 11	12	28.020	18.6		18.5	wnw	5	10–	ST	nw	2,500	15	Overcast	
December 12	06	28.140	25.0		16.5		0	10	ST	u	3,000	10	Lgt snow, cont	Snow began 0400.
	24	28.140	22.8		18.3	wsw	6	2	ST	sw	u	20	Partly cloudy	
December 13	12	28.095	29.1		22.8		0	1	AS	sw	u	30	Partly cloudy	
	24	28.020	27.7		20.6	sw	4	0			u	50	Cloudless	
December 14	06	28.005	19.8		18.5	ne	4	0			u	50	Cloudless	
	12	28.005	16.7		16.7	ne	5	0			u	50	Cloudless	
	24	28.045	27.0		16.0	nw	8	4	CS, ST	nw	u	25	Partly cloudy	
December 15	12	28.050	18.8		18.7	nw	9	3	AC	nw	u	25	Partly cloudy	
December 16	06	28.045	25.4		18.3		0	3	AS	nw	u	50	Partly cloudy	
December 17	06	28.040	22.5		11.8	nw	4	3	AS, ST	nw	u	50	Partly cloudy	
	12	28.025	13.2		11.3	sw	8	5	AS, ST	u	6,000	25	Cloudy	
December 18	18	28.245	22.0		13.2		0	F	ST	u	u	50	Cloudless	
	24	28.260	25.0		17.5	nw	3	0			u	50	Cloudless	
December 19	06	28.260	18.4		17.8	nw	4	0			u	50	Cloudless	
	18	28.230	28.7		17.8		0	0			u	50	Cloudless	
	24	28.220	27.0		18.0	nw	3	F	ST	nw	u	50	Cloudless	
December 20	12	28.265	23.1		15.3	w	1	8	SC	w	4,000	25	Cloudy	
	18	28.245	28.1		21.3	e	1	8	SC	u	4,000	25	Cloudy	
	24	28.160	28.3		21.2	nw	6	9	SC	nw	4,000	25	Cloudy	
December 22	12	28.130	24.3		20.5	nw	12	10–	SC	wnw	3,000	10	Overcast	
	18	28.125	26.9		24.0	sw	8	10	SC	u	3,000	10	Overcast	
	24	28.120	23.0		23.0	nnw	12	10	ST	nne	1,000	5	Overcast	
December 23	06	28.100	15.8		15.8	nnw	16	10	ST	nnw	1,000	5	Overcast	
	24	28.215	18.0		9.1	nw	14	2	ST	nw	u	25	Partly cloudy	
December 24	06	28.245	19.8		17.0	nw	8	8	ST	nw	2,000	25	Cloudy	
	24	28.395	29.7		17.8	wnw	5	10	ST	nw	3,000	25	Overcast	
December 25	06	28.345	28.7		27.6	n	1	9	AC	n	7,000	25	Overcast	
	18	28.225	33.9		20.3	n	1	1	AC	u	u	20	Partly cloudy	
	24		23.3		22.0	nne	15	8	ST	nne	4,000	25	Partly cloudy	
December 26	24	27.655	33.4			n	1	10–	ST	n	3,000	25	Overcast	High wind began 0300; 60 mph at 1100; died quickly 1700.
December 27	06	27.665	30.7		30.4		0	10	ST	u	3,000	2	Snow and fog	Snow and fog began 0200.
	24	27.730	30.2			n	15	10	ST	u	3,000	10	Overcast	
December 28	06	27.740	25.3		16.7	n	25	10	ST	u	3,000	10	Overcast	
	18	27.740	30.2			n	15	10	ST	u	3,000	20	Overcast	
	24	27.600	25.8			n	34	10	ST	u	3,000	2	Lgt drift, low	

FREQUENCIES OF WEATHER CONDITIONS, LITTLE AMERICA

TABLE 12a.—*Number of six-hourly observations at which sky cover and visibility were between certain limits, and number of cases of heavy, moderate, and light drift, snow, fog, etc.*

Element	February				March				April				May				June				July			
	06	12	18	24	06	12	18	24	06	12	18	24	06	12	18	24	06	12	18	24	06	12	18	24
CLOUDS																								
0, Few	3	1	2	3	2	2	3	3	9	9	4	5	7	8	8	8	5	2	8	7	4	6	8	4
1, 2, 3	2	0	0	2	1	2	0	0	0	1	0	4	4	2	3	2	2	3	2	3	1	3	2	5
4, 5, 6	2	0	1	2	2	2	2	1	1	1	0	1	1	3	1	2	2	1	2	3	3	1	2	1
7, 8, 9	4	1	2	4	3	3	1	4	3	2	1	0	3	2	3	5	2	3	0	2	5	2	0	2
10—, 10	15	11	10	18	22	19	18	16	16	15	21	20	11	12	13	11	12	16	12	9	16	15	15	15
Obscured	2	1	0	0	1	3	7	7	1	2	4	0	5	4	3	3	7	5	6	6	2	4	4	4
VISIBILITY																								
0 to 1/16	2	1	0	0	1	2	8	6	3	2	4	1	5	4	4	4	5	3	3	5	1	2	2	2
1/16 to 1/2	2	2	1	2	7	5	1	2	5	4	6	3	1	2	1	1	5	4	4	3	3	4	5	3
5/8 to 2	2	1	0	4	3	6	6	5	5	7	3	6	11	12	14	13	0	3	2	1	5	2	2	1
2 1/2 to 6	1	0	4	3	8	5	4	4	3	6	6	10	2	4	3	2	4	3	5	3	3	6	6	7
8 to 20	17	8	7	14	7	9	8	10	10	7	8	6	12	9	8	10	15	16	13	17	18	12	11	15
Over 20	4	2	3	6	5	4	4	4	4	4	3	4	0	0	1	1	1	1	3	1	1	5	5	3
DRIFT																								
Heavy:																								
High	1	0	0	0	0	2	6	6	0	2	3	0	4	3	3	4	4	3	3	4	1	2	2	2
Low	0	0	0	0	1	0	2	0	1	1	1	1	1	1	1	0	1	0	0	1	0	0	0	0
Moderate:																								
High	0	0	0	0	1	0	2	2	0	0	0	0	0	1	0	0	3	2	2	2	0	2	0	2
Low	1	2	1	1	4	3	0	1	2	4	2	3	0	1	1	2	2	2	1	1	3	2	1	0
Light	2	1	0	3	1	0	2	3	1	0	0	0	0	1	4	3	2	6	3	3	6	1	2	3
SNOW																								
Heavy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Moderate	1	0	0	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Light	3	2	3	2	2	6	3	3	2	3	2	2	2	1	2	2	0	1	1	1	1	3	1	2
Snow grains	0	0	0	0	0	0	0	0	0	1	2	0	3	2	0	0	0	1	0	0	1	1	1	1
Ice crystals	0	0	0	0	0	2	0	1	0	1	1	0	0	0	0	0	1	0	0	0	1	3	2	1
FOG																								
Heavy	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Moderate	0	0	0	0	0	0	0	0	2	0	3	0	1	1	0	0	0	0	0	0	0	0	1	0
Light	0	0	0	0	0	1	1	0	1	1	1	2	1	1	1	1	0	0	0	0	0	0	0	1
Hazy	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0
Milky	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RAIN																								
Light	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Element	August				September				October				November				December				January			
	06	12	18	24	06	12	18	24	06	12	18	24	06	12	18	24	06	12	18	14	06	12	18	24
CLOUDS																								
0, Few	8	9	10	5	15	12	14	10	3	4	5	5	10	7	7	11	4	4	4	6	3	3	4	2
1, 2, 3	3	4	1	4	1	4	4	3	6	4	5	4	2	3	2	2	2	5	4	6	4	3	1	4
4, 5, 6	1	1	2	0	2	1	0	2	4	6	2	4	2	1	1	3	5	0	1	1	2	1	3	2
7, 8, 9	3	1	4	0	3	3	1	1	8	2	4	4	4	6	6	1	5	7	5	3	6	4	1	6
10—, 10	15	13	13	22	8	9	9	12	9	15	15	13	12	13	14	12	14	12	14	15	15	20	20	16
Obscured	1	3	1	0	1	1	2	2	1	0	0	1	0	0	0	1	1	3	3	0	1	0	2	1
VISIBILITY																								
0 to 1/16	0	2	1	0	2	2	4	3	1	1	1	2	0	0	0	0	0	1	1	0	0	0	1	1
1/16 to 1/4	11	4	4	6	3	4	1	6	0	1	7	6	1	0	2	1	4	4	5	2	3	1	1	0
5/8 to 2	1	6	3	4	6	3	4	2	6	3	3	1	0	4	0	0	3	1	4	4	1	1	1	2
2 1/2 to 6	1	8	9	5	4	5	5	7	2	7	2	3	1	1	2	1	2	2	4	3	4	9	10	9
8 to 20	17	8	11	12	15	16	14	12	17	16	15	14	21	16	20	20	14	13	6	8	21	19	16	17
Over 20	1	3	3	4	0	0	2	0	5	3	3	5	7	9	6	8	8	10	11	14	2	1	2	2
DRIFT																								
Heavy:																								
High	0	2	1	0	1	1	2	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Low	0	0	0	0	1	1	2	1	0	1	1	2	0	0	0	0	0	0	1	0	0	0	0	0
Moderate:																								
High	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	2	1	0	0	0	0	0
Low	9	1	2	3	2	3	1	3	0	0	4	3	1	0	1	0	2	1	2	2	0	1	0	0
Light	0	0	2	3	3	2	2	2	4	4	2	4	4	3	1	3	1	1	2	3	2	1	2	3
SNOW																								
Heavy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Moderate	2	1	1	2	0	0	0	0	0	1	0	2	0	1	1	0	1	1	0	0	3	1	0	0
Light	0	5	5	0	0	1	1	1	2	0	2	1	0	2	3	1	2	1	3	2	1	2	3	3
Snow grains	2	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0
Ice crystals	0	3	0	0	0	0	0	1	2	1	3	2	1	1	3	2	0	0	1	2	1	0	1	3
FOG																								
Heavy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Moderate	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0
Light	0	1	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0
Hazy	1	1	0	0	2	2	2	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Milky	0	1	0	0	3	1	0	4	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0
RAIN																								
Light	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	2	0	0	0	0

TABLE 12b.—*Percent of frequency of various sky covers, visibilities, and weather conditions at regular observations*

Element	February	March	April	May	June	July	August	September	October	November	December	January	Year*	
													Percent	Total no.
CLOUDS														
0 Few	10	8	23	25	18	18	26	42	14	29	14	10	20	286
1, 2, 3	5	2	4	9	8	9	10	10	15	7	13	10	9	124
4, 5, 6	6	6	3	6	7	6	3	4	13	6	6	6	6	84
7, 8, 9	13	9	5	10	6	7	6	7	14	14	16	14	10	145
10–, 10	63	60	60	37	41	49	51	32	42	43	45	57	48	688
Obscured	3	15	5	13	20	11	4	5	2	1	6	3	7	107
VISIBILITY														
0 to 1/16	4	14	8	14	13	6	2	9	4	0	2	2	7	93
1/8 to 1/2	8	12	15	4	13	12	20	12	11	4	12	4	11	153
5/8 to 2	8	16	18	40	5	8	11	12	11	3	10	4	12	177
2½ to 6	9	17	21	9	13	18	19	17	11	4	9	26	14	208
8 to 20	54	27	26	31	51	45	39	48	50	64	33	59	44	625
Over 20	17	14	12	2	5	11	9	2	13	25	34	5	12	178
DRIFT														
Heavy:														
High	1	10	4	11	12	6	2	5	1	0	1	0	4	64
Low	0	2	3	2	2	0	0	4	3	0	1	0	2	22
Moderate:														
High	0	4	0	1	8	3	1	0	1	1	3	0	2	27
Low	6	6	7	3	5	5	12	7	6	2	6	1	6	85
Light	7	5	1	6	12	10	4	7	11	9	6	6	7	101
SNOW														
Heavy	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Moderate	2	1	2	0	0	1	5	0	2	2	2	3	2	23
Light	12	11	7	6	2	6	8	2	4	5	6	7	6	91
Snow grains	0	0	2	4	1	3	2	0	2	1	1	0	1	20
Ice crystals	0	2	2	0	1	6	2	1	6	6	2	4	3	40
FOG														
Heavy	1	0	0	0	0	0	0	0	0	0	0	1	0	2
Moderate	0	0	4	2	0	1	2	0	0	0	2	1	1	14
Light	0	2	4	3	0	1	2	0	1	0	1	1	1	18
Hazy	0	0	1	2	1	0	2	7	0	1	0	0	2	32
Milky	0	1	0	0	0	0	1	7	1	0	2	0	1	13
RAIN														
Light	0	0	0	0	0	0	0	0	0	0	5	0	0	6

*1,434 observations in 12 months.

TABLE 12c.—*Summaries of weather conditions, based on synoptic observations, Seismic Station*

I. Number of observations of various sky covers and visibilities, and percentages

Cloudiness (tenths)	November					December					Total	
	06	12	18	24	Freq.	06	12	18	24	Freq.	Obs.	Freq.
					Percent					*Percent*		*Percent*
0, Few	4	2	1	4	17	3	1	2	3	17	20	17
1, 2, 3	6	1	1	6	22	3	3	2	2	19	24	21
4, 5, 6	3	2	2	3	16	2	1	0	1	7	14	12
7, 8, 9	7	1	0	3	13	5	1	2	4	22	20	17
10–, 10	4	4	0	9	32	5	5	2	7	35	39	33
Obscured	0	0	0	0	0	0	0	0	0	0	0	0
VISIBILITY (miles)												
0–1/8	0	0	0	0	0	0	0	0	0	0	0	0
1/8–1/2	1	0	0	0	2	0	0	0	0	0	1	1
1/2–2	0	0	0	1	2	1	0	0	1	4	3	3
2½–6	3	2	0	5	16	2	2	0	1	9	15	13
8–20	12	6	2	10	47	5	3	3	3	26	44	37
20–50	8	2	2	9	33	10	6	5	12	61	54	46

II. Surface wind: mean and resultant directions and speeds, etc., and percent of frequency, percent of movement, and mean speed (m. p. h.)

	November	December	Total
Prevailing Direction	NE	NW	NW
Mean Direction	360°	341°	347°
Resultant Direction	1°	355°	357°
Resultant Speed	3.6	5.3	4.3
Mean Speed	6.1	8.4	7.2
Stability	59%	63%	60%
N–S Component	3.6 N	5.0 N	4.3 N
W–E Component	0.1 E	0.5 W	0.2 W

Wind direction	November			December			Total		
	% Freq.	% Movt.	M. Spd.	% Freq.	% Movt.	M. Spd.	% Freq.	% Movt.	M. Spd.
N	11.1	10.2	5.7	14.8	26.4	15.0	12.8	19.0	10.6
NNE	9.5	10.7	6.8	5.6	16.5	25.0	7.7	13.8	12.9
NE	17.5	26.6	9.3	9.2	13.0	17.8	13.7	19.2	10.0
ENE	1.6	1.0	4.0	0.0	0.0	0.0	0.9	0.5	4.0
E	0.0	0.0	0.0	1.9	0.2	1.0	0.9	0.1	1.0
ESE	3.2	3.9	7.5	3.7	1.5	3.5	3.4	2.6	5.5
SE	0.0	0.0	0.0	5.6	4.0	6.0	2.6	2.2	6.0
SSE	3.2	1.6	3.0	1.9	0.4	2.0	2.6	1.0	2.7
S	1.6	0.5	2.0	0.0	0.0	0.0	0.9	0.1	2.0
SSW	3.2	1.8	3.5	0.0	0 0	0.0	1.7	0.8	3.5
SW	3.2	1.8	3.5	7.3	6.6	7.5	5.1	4.4	6.2
WSW	1.6	1.0	4.0	1.9	1.3	6.0	1.7	1.2	5.0
W	0.0	0.0	0.0	7.3	3.7	4.2	3.4	2.0	4.2
WNW	6.3	9.4	9.0	5.6	3.1	4.7	6.0	6.0	7.1
NW	15.8	14.3	5.5	18.5	15.6	7.1	17.0	15.0	6.3
	3.2	14.1	27.0	3.7	6.2	14.0	3.4	9.8	2.1
Calm	19.0			13.0			16.2		

PART IV. STATION PRESSURE OBSERVATIONS

EXPLANATORY NOTE

Hourly values of the atmospheric pressure at Little America III, corrected for gravity, have been reduced from the continuous microbarograph record and summarized over a complete year, from February 1, 1940, to January 31, 1941, inclusive. The values, in inches, refer to "station elevation," approximately 103 feet above sea level.

All dates and times are in Universal or Greenwich Meridian Time, which was not quite 11 hours ahead of local time; i. e., local mean noon (at 163°55′ W.) came at 2254 GMT. Previous pressure data from the Ross Sea area have been on either local time or 180th meridian time, which differs by exactly half a day from GMT. In addition, most of the earlier tabulations, all for stations within sight of water and only a few feet above it, are for sea level, whereas uncertainty as to the exact temperature argument to be used in sea level reduction from Little America III has resulted in the presentation here of station pressures, *not sea level values*, which would have been 0.15 to 0.19 inch higher.

Readings of the microbarograph were corrected to the values obtained at the regular observations every six hours from the "station" barometer, a standard Weather Bureau mercurial instrument with Tuch cistern. After April 1 it was mounted directly beneath the shelf on which stood the microbarograph, and for six weeks previously was on an adjacent wall, when both instruments were temporarily mounted in another building.

The microbarograph from which the tabulated values were obtained was one of two identical instruments of the most modern design, with two hydraulic dashpots, 2½ to 1 scale, and 4-day drum rotation, manufactured for the Weather Bureau by Julien P. Friez and Sons of Baltimore. Except for three months during which the second instrument was sent to an outpost, both machines were operated continuously, either close to each other or in separate buildings, as a check against record breaks.

The "spare" instrument had been in continuous operation aboard ship during the voyage from Boston, and just before final ship sailing was removed to a thermometer shelter, and three weeks later taken to the camp. The "station" barograph was first installed on January 25, 1940, in a thermometer shelter at the Little America III campsite, and removed to the bunkhouse on February 14, as soon as that building was ready, later being taken to the science building. At camp evacuation on February 1, 1941, it was taken on board U. S. M. S. *North Star* to continue the record, while the companion instrument was operated on board U. S. S. *Bear*.

In the tabulation, the first week of record, obtained in January 1940, has not been used, so that the values represent exactly one year. Checks during the first half of February were by a mercurial barometer which was mounted outdoors on a post. Unfortunately this barometer was damaged before it could be compared with the "station" barometer adopted later, so that the earliest values are somewhat uncertain.

Due to use of a slightly erroneous value for "standard gravity," the tables for correction of the height of the mercurial column for temperature and gravity, which were computed as needed, give values which are *0.006 inch too high*. This error was naturally carried over onto the barograph, but no attempt has been made to correct for it in the pressure tables, since it is probably no greater than the undetermined error due to variations in the barometer constants during the year. A constant correction of +0.005 inch for barometer capillarity and scale was incorporated into the tables.

Detailed discussion of barometer and barograph locations, comparisons, corrections, variations, discrepancies, etc., may be found in a manuscript report, "Little America Weather Observations, 1940–1941," deposited in the Weather Bureau library. Particularly detailed are comments in Sec. B on pages 3 to 7 and 15 to 17. After analysis by the observer, in consultation with experts of the Bureau's instrument division and others, of the various sources of error, the figures as tabulated here represent, it is believed, the most probable values of the true station atmospheric pressure.

TABLE 13a. Hourly station pressures for Little America III, corrected for temperature and gravity. Highest hourly and daily values for each month are in bold-face type, lowest in italics.

TABLE 13b. Hourly station pressures for Little America III Seismic Station outpost. This outpost was located on Mount Franklin in the Rockefeller Mountains at 1,280 feet above mean sea level. Its location was at 78°06′ S. lat., 155°30′ W. long. Records were taken from a microbarograph, corrected to aneroid barometer values.

Figure 8 shows graphically the mean sea level pressures and surface temperatures for 10-day periods.

INDIVIDUAL HOURLY OBSERVATIONS, LITTLE AMERICA AND ITS SEISMIC STATION

TABLE 13a.—*Little America III, station pressure, hourly values*

[Corrected for temperature and gravity]

FEBRUARY 1940

GMT	01	02	03	04	05	06	07	08	09	10	11	12
Date												
1	29.52	29.51	29.52	29.51	29.49	29.46	29.45	29.44	29.43	29.41	29.40	29.39
2	29.34	29.34	29.34	29.35	29.36	29.36	29.37	29.38	29.40	29.41	29.42	29.44
3	29.62	29.64	29.64	29.65	29.66	29.66	29.67	29.67	29.67	29.67	29.67	29.67
4	29.64	29.63	29.63	29.63	29.62	29.62	29.62	29.61	29.60	29.59	29.58	29.58
5	29.52	29.52	29.51	29.51	29.51	29.51	29.50	29.49	29.48	29.47	29.46	29.45
6	29.30	29.30	29.30	29.30	29.30	29.30	29.30	29.30	29.30	29.29	29.29	29.29
7	29.34	29.34	29.33	29.32	29.32	29.32	29.32	29.32	29.32	29.32	29.31	29.31
8	29.34	29.34	29.34	29.35	29.36	29.36	29.36	29.37	29.37	29.37	29.37	29.37
9	29.39	29.38	29.38	29.37	29.37	29.37	29.36	29.36	29.36	29.35	29.35	29.35
10	29.36	29.35	29.35	29.34	29.34	29.34	29.34	29.34	29.34	29.34	29.34	29.33
11	29.30	29.30	29.30	29.31	29.31	29.32	29.32	29.32	29.32	29.31	29.31	29.31
12	29.36	29.37	29.37	29.38	29.39	29.40	29.41	29.42	29.43	29.44	29.45	29.45
13	29.48	29.48	29.47	29.47	29.47	29.47	29.47	29.47	29.47	29.47	29.47	29.46
14	29.44	29.45	29.45	29.46	29.47	29.48	29.49	29.50	29.51	29.51	29.51	29.51
15	29.63	29.64	29.65	29.65	29.65	29.65	29.66	29.66	29.66	29.66	29.66	29.66
16	29.49	29.47	29.44	29.42	29.40	29.38	29.36	29.35	29.33	29.33	29.33	29.32
17	29.18	29.17	29.15	29.14	29.13	29.12	29.11	29.10	29.09	29.09	29.09	29.08
18	29.04	29.02	29.02	29.01	*29.00*	*29.00*	29.02	29.02	29.02	29.04	29.05	29.06
19	29.37	29.39	29.41	29.42	29.44	29.46	29.48	29.51	29.53	29.55	29.57	29.58
20	29.68	29.68	29.68	29.68	29.68	29.67	29.66	29.66	29.65	29.64	29.64	29.63
21	29.48	29.47	29.46	29.45	29.45	29.44	29.44	29.43	29.43	29.42	29.42	29.41
22	29.43	29.43	29.44	29.45	29.47	29.48	29.49	29.50	29.51	29.51	29.51	29.52
23	29.67	29.67	29.68	29.68	29.68	29.68	29.68	29.67	29.67	29.66	29.66	29.66
24	29.58	29.57	29.57	29.56	29.56	29.56	29.56	29.56	29.56	29.56	29.56	29.56
25	29.70	**29.71**	**29.71**	**29.71**	**29.71**	**29.71**	**29.71**	29.70	29.69	29.69	29.70	29.70
26	29.53	29.51	29.49	29.47	29.44	29.41	29.39	29.37	29.36	29.34	29.32	29.31
27	29.26	29.26	29.26	29.26	29.26	29.26	29.26	29.26	29.27	29.28	29.28	29.29
28	29.41	29.42	29.42	29.43	29.45	29.46	29.47	29.49	29.51	29.53	29.54	29.56
29	29.57	29.56	29.54	29.53	29.50	29.48	29.48	29.46	29.46	29.46	29.46	29.46
Mean	29.447	29.446	29.443	29.442	29.441	29.439	29.440	29.439	29.439	29.438	29.439	29.438

GMT	13	14	15	16	17	18	19	20	21	22	23	24	Mean
Date													
1	29.38	29.37	29.36	29.35	29.34	29.34	29.34	29.34	29.34	29.34	29.34	29.34	29.405
2	29.45	29.46	29.48	29.50	29.52	29.52	29.54	29.55	29.56	29.57	29.58	29.61	29.452
3	29.66	29.66	29.65	29.64	29.64	29.64	29.64	29.63	29.64	29.64	29.64	29.64	29.650
4	29.58	29.57	29.56	29.55	29.56	29.55	29.54	29.54	29.54	29.53	29.53	29.52	29.580
5	29.44	29.43	29.43	29.42	29.40	29.38	29.37	29.36	29.34	29.33	29.33	29.31	29.436
6	29.29	29.30	29.30	29.31	29.32	29.32	29.33	29.33	29.34	29.35	29.35	29.36	29.311
7	29.31	29.31	29.31	29.31	29.31	29.32	29.32	29.32	29.33	29.33	29.34	29.34	29.322
8	29.37	29.37	29.37	29.37	29.37	29.38	29.38	29.38	29.39	29.39	29.40	29.40	29.370
9	29.35	29.35	29.35	29.35	29.36	29.36	29.37	29.37	29.36	29.36	29.36	29.36	29.362
10	29.33	29.33	29.33	29.33	29.32	29.32	29.32	29.32	29.32	29.31	29.31	29.30	29.331
11	29.31	29.32	29.32	29.32	29.32	29.33	29.33	29.34	29.34	29.35	29.35	29.36	29.322
12	29.45	29.45	29.45	29.45	29.46	29.46	29.46	29.47	29.47	29.47	29.48	29.48	29.434
13	29.46	29.46	29.46	29.46	29.45	29.45	29.45	29.45	29.45	29.45	29.44	29.44	29.461
14	29.52	29.53	29.54	29.55	29.56	29.57	29.58	29.59	29.60	29.61	29.62	29.63	29.528
15	29.66	29.66	29.66	29.63	29.61	29.60	29.59	29.58	29.56	29.54	29.52	29.51	29.623
16	29.32	29.32	29.31	29.29	29.28	29.26	29.25	29.23	29.22	29.20	29.19	29.18	29.320
17	29.08	29.08	29.07	29.07	29.07	29.06	29.06	29.06	29.05	29.05	29.04	29.04	*29.091*
18	29.08	29.10	29.11	29.13	29.15	29.18	29.20	29.23	29.26	29.30	29.33	29.35	29.113
19	29.59	29.60	29.61	29.62	29.63	29.64	29.65	29.66	29.66	29.67	29.67	29.68	29.558
20	29.62	29.60	29.59	29.57	29.56	29.54	29.53	29.51	29.50	29.50	29.49	29.49	29.602
21	29.41	29.41	29.40	29.40	29.40	29.40	29.40	29.40	29.41	29.41	29.42	29.42	29.424
22	29.54	29.55	29.56	29.58	29.58	29.59	29.60	29.61	29.62	29.63	29.65	29.67	29.538
23	29.65	29.64	29.64	29.63	29.62	29.62	29.61	29.60	29.60	29.59	29.58	29.58	29.642
24	29.57	29.58	29.59	29.60	29.61	29.62	29.64	29.65	29.66	29.68	29.69	29.69	29.597
25	29.70	29.70	29.69	29.68	29.67	29.66	29.64	29.63	29.62	29.60	29.58	29.55	**29,673**
26	29.30	29.29	29.28	29.27	29.27	29.26	29.26	29.26	29.26	29.26	29.26	29.26	29.340
27	29.30	29.30	29.31	29.32	29.32	29.34	29.34	29.36	29.36	29.37	29.38	29.40	29.304
28	29.57	29.57	29.57	29.57	29.58	29.58	29.58	29.58	29.58	29.58	29.58	29.58	29.525
29	29.44	29.44	29.43	29.43	29.42	29.42	29.42	29.43	29.44	29.46	29.47	29.48	29.468
Mean	29.439	29.439	29.439	29.438	29.438	29.438	29.439	29.441	29.442	29.444	29.445	29.447	29.441

TABLE 13a.—*Little America III, station pressure, hourly values*—Continued

MARCH 1940

GMT	01	02	03	04	05	06	07	08	09	10	11	12
Date												
1	29.49	29.49	29.49	29.49	29.50	29.50	29.50	29.50	29.50	29.50	29.50	29.50
2	29.46	29.46	29.46	29.46	29.46	29.46	29.46	29.47	29.47	29.48	29.48	29.49
3	29.47	29.47	29.46	29.46	29.46	29.46	29.46	29.46	29.46	29.45	29.45	29.45
4	29.51	29.51	29.51	29.51	29.51	29.51	29.51	29.52	29.52	29.52	29.53	29.54
5	29.60	29.61	29.61	29.62	29.63	29.64	29.64	29.65	29.66	29.67	29.67	29.68
6	29.76	29.77	29.77	29.77	29.77	29.78	29.78	29.78	29.78	29.78	29.78	29.78
7	29.76	29.75	29.75	29.74	29.74	29.74	29.74	29.74	29.75	29.75	29.75	29.75
8	29.74	29.73	29.72	29.71	29.70	29.69	29.68	29.68	29.67	29.65	29.63	29.62
9	29.28	29.27	29.27	29.28	29.29	29.30	29.32	29.34	29.36	29.38	29.39	29.40
10	29.44	29.44	29.44	29.44	29.45	29.45	29.45	29.45	29.45	29.45	29.45	29.45
11	29.43	29.42	29.41	29.40	29.39	29.36	29.34	29.32	29.29	29.26	29.24	29.22
12	29.00	28.98	28.96	28.94	28.91	28.88	28.84	28.82	28.80	28.80	28.78	28.76
13	*28.69*	*28.69*	28.70	28.70	28.71	28.72	28.74	28.74	28.76	28.78	28.80	28.81
14	28.92	28.93	28.94	28.94	28.96	28.97	28.98	29.00	29.03	29.08	29.09	29.12
15	29.29	29.28	29.28	29.27	29.26	29.25	29.24	29.23	29.21	29.20	29.19	29.18
16	28.79	28.76	28.74	28.73	28.73	28.74	28.76	28.78	28.79	28.80	28.80	28.80
17	28.80	28.80	28.81	28.82	28.83	28.84	28.85	28.86	28.88	28.89	28.90	28.92
18	29.26	29.26	29.26	29.26	29.26	29.26	29.25	29.24	29.23	29.22	29.21	29.20
19	28.89	28.86	28.83	28.81	28.80	28.80	28.80	28.81	28.81	28.82	28.82	28.83
20	28.85	28.85	28.85	28.85	28.85	28.85	28.85	28.85	28.85	28.85	28.86	28.86
21	28.93	28.94	28.96	28.97	28.98	28.99	28.99	28.99	29.00	29.00	29.00	29.00
22	29.10	29.11	29.12	29.13	29.14	29.16	29.16	29.18	29.19	29.20	29.20	29.21
23	28.96	28.94	28.90	28.88	28.84	28.82	28.80	28.78	28.78	28.79	28.80	28.81
24	29.14	29.15	29.16	29.18	29.19	29.20	29.22	29.24	29.26	29.28	29.30	29.32
25	29.41	29.40	29.40	29.40	29.40	29.40	29.40	29.39	29.38	29.36	29.35	29.35
26	29.22	29.21	29.20	29.19	29.18	29.17	29.16	29.16	29.15	29.14	29.13	29.11
27	29.15	29.17	29.19	29.20	29.21	29.23	29.25	29.26	29.27	29.29	29.30	29.30
28	29.40	29.41	29.42	29.43	29.44	29.44	29.45	29.45	29.45	29.46	29.46	29.47
29	29.44	29.44	29.44	29.43	29.43	29.43	29.43	29.43	29.43	29.43	29.43	29.43
30	29.49	29.49	29.50	29.50	29.50	29.50	29.49	29.47	29.46	29.46	29.45	29.44
31	29.04	29.04	29.05	29.05	29.06	29.07	29.07	29.07	29.06	29.05	29.04	29.03
Mean	29.248	29.246	29.245	29.244	29.244	29.245	29.245	29.247	29.248	29.251	29.251	29.250

GMT	13	14	15	16	17	18	19	20	21	22	23	24	Mean
Date													
1	29.50	29.50	29.49	29.48	29.47	29.47	29.47	29.47	29.46	29.46	29.46	29.46	29.485
2	29.49	29.49	29.48	29.48	29.48	29.48	29.48	29.48	29.47	29.47	29.47	29.47	29.473
3	29.45	29.46	29.46	29.46	29.47	29.47	29.47	29.48	29.48	29.50	29.50	29.51	29.467
4	29.54	29.55	29.55	29.56	29.56	29.57	29.57	29.57	29.57	29.58	29.58	29.59	29.541
5	29.69	29.69	29.70	29.72	29.72	29.73	29.73	29.74	29.74	29.75	29.75	29.76	29.683
6	*29.78*	29.77	29.77	29.77	29.76	29.76	29.76	29.76	29.76	29.76	29.76	29.76	*29.769*
7	29.75	29.75	29.75	29.75	29.75	29.75	29.75	29.75	29.75	29.75	29.74	29.74	29.747
8	29.59	29.57	29.55	29.51	29.47	29.43	29.41	29.37	29.33	29.30	29.29	29.28	29.555
9	29.40	29.41	29.41	29.41	29.42	29.42	29.42	29.43	29.43	29.43	29.43	29.44	29.372
10	29.44	29.42	29.41	29.39	29.39	29.39	29.40	29.41	29.41	29.42	29.43	29.44	29.430
11	29.21	29.17	29.15	29.14	29.13	29.12	29.11	29.10	29.08	29.06	29.04	29.02	29.225
12	28.75	28.73	28.72	28.71	28.70	28.70	28.70	28.70	28.70	28.70	*28.69*	*28.69*	28.790
13	28.81	28.82	28.83	28.85	28.86	28.87	28.88	28.90	28.91	28.91	28.92	28.92	28.805
14	29.14	29.15	29.18	29.19	29.23	29.26	29.27	29.27	29.28	29.29	29.29	29.29	29.117
15	29.16	29.13	29.12	29.08	29.07	29.05	29.00	28.97	28.91	28.88	28.84	28.80	29.120
16	28.81	28.80	28.80	28.80	28.79	28.79	28.78	28.78	28.77	28.78	28.78	28.79	*28.779*
17	28.93	28.96	28.98	29.01	29.05	29.08	29.13	29.16	29.19	29.22	29.24	29.26	28.975
18	28.19	29.17	29.16	29.13	29.11	29.08	29.06	29.03	29.00	28.98	28.95	28.93	29.154
19	28.83	28.84	28.85	28.86	28.87	28.87	28.86	28.86	28.86	28.85	28.85	28.85	28.839
20	28.86	28.86	28.86	28.85	28.85	28.85	28.85	28.86	28.87	28.88	28.90	28.92	28.860
21	29.00	29.01	29.01	29.02	29.02	29.02	29.04	29.04	29.04	29.06	29.07	29.08	29.007
22	29.20	29.19	29.18	29.16	29.14	29.12	29.10	29.08	29.06	29.04	29.02	28.99	29.132
23	28.83	28.85	28.87	28.89	28.94	28.97	28.99	29.05	29.07	29.09	29.10	29.12	28.911
24	29.34	29.36	29.38	29.39	29.39	29.41	29.41	29.41	29.41	29.41	29.41	29.41	29.307
25	29.34	29.34	29.33	29.32	29.32	29.31	29.29	29.27	29.26	29.25	29.24	29.22	29.339
26	29.09	29.08	29.07	29.06	29.05	29.04	29.04	29.05	29.07	29.09	29.11	29.13	29.121
27	29.31	29.32	29.34	29.34	29.35	29.36	29.36	29.38	29.38	29.39	29.39	29.40	29.208
28	29.47	29.47	29.47	29.46	29.46	29.45	29.45	29.45	29.45	29.45	29.44	29.44	29.448
29	29.43	29.43	29.43	29.43	29.43	29.43	29.43	29.44	29.45	29.46	29.47	29.48	29.438
30	29.41	29.37	29.33	29.29	29.23	29.13	29.09	29.08	29.07	29.06	29.05	29.04	29.329
31	29.01	28.97	28.93	28.91	28.90	28.89	28.89	28.89	28.90	28.90	28.91	28.92	28.985
Mean	29.250	29.246	29.244	29.239	29.238	29.234	29.232	29.233	29.230	29.231	29.230	29.231	29.243

TABLE 13a.—*Little America III, station pressure, hourly values*—Continued

APRIL 1940

GMT	01	02	03	04	05	06	07	08	09	10	11	12
Date												
1	28.93	28.93	28.93	28.94	28.95	28.96	28.97	28.98	28.98	28.98	28.98	28.98
2	29.07	29.10	29.13	29.17	29.19	29.20	29.24	29.26	29.28	29.31	29.33	29.34
3	29.50	29.50	29.51	29.51	29.51	29.51	29.51	29.51	29.51	29.51	29.50	29.50
4	29.33	29.31	29.30	29.28	29.28	29.28	29.27	29.26	29.26	29.25	29.24	29.23
5	29.25	29.26	29.27	29.28	29.29	29.30	29.31	29.33	29.35	29.36	29.37	29.38
6	29.44	29.43	29.43	29.42	29.42	29.41	29.40	29.40	29.39	29.39	29.38	29.37
7	29.26	29.26	29.24	29.23	29.21	29.20	29.20	29.19	29.19	29.18	29.17	29.16
8	29.40	29.42	29.46	29.46	29.47	29.48	29.48	29.49	29.49	29.52	29.52	29.53
9	29.58	29.58	29.58	29.58	29.58	29.58	29.58	29.58	29.58	29.58	29.58	29.57
10	29.44	29.42	29.40	29.36	29.32	29.32	29.32	29.32	29.32	29.31	29.30	29.29
11	29.19	29.18	29.17	29.16	29.16	29.16	29.14	29.13	29.11	29.10	29.08	29.07
12	28.80	28.79	28.79	28.79	28.79	28.79	28.79	28.78	28.77	28.75	28.73	28.73
13	28.81	28.83	28.85	28.86	28.87	28.88	28.90	28.90	28.90	28.90	28.90	28.91
14	28.87	28.87	28.87	28.87	28.88	28.89	28.90	28.92	28.93	28.95	28.96	28.99
15	29.19	29.19	29.20	29.20	29.20	29.20	29.20	29.20	29.20	29.20	29.20	29.20
16	29.19	29.19	29.18	29.16	29.13	29.10	29.07	29.04	29.01	28.97	28.93	28.89
17	28.78	28.78	28.79	28.80	28.81	28.81	28.82	28.83	28.83	28.82	28.82	28.81
18	28.77	28.78	28.80	28.80	28.81	28.81	28.81	28.80	28.80	28.80	28.80	28.80
19	28.74	28.74	28.74	28.73	28.72	28.72	28.72	28.72	28.72	28.73	28.73	28.74
20	28.75	28.75	28.75	28.75	28.75	28.76	28.77	28.77	28.77	28.78	28.79	28.82
21	28.99	28.99	29.00	29.00	29.01	29.02	29.03	29.04	29.05	29.06	29.07	29.07
22	29.10	29.10	29.10	29.10	29.10	29.11	29.11	29.11	29.11	29.11	29.11	29.11
23	29.08	29.08	29.08	29.09	29.09	29.09	29.09	29.09	29.09	29.09	29.10	29.10
24	29.13	29.13	29.13	29.12	29.11	29.10	29.10	29.09	29.08	29.07	29.06	29.06
25	28.89	28.87	28.85	28.80	28.79	28.77	28.72	28.70	28.68	28.66	28.62	28.59
26	*28.44*	28.45	28.47	28.49	28.51	28.53	28.54	28.56	28.57	28.59	28.62	28.64
27	28.90	28.91	28.92	28.94	28.94	28.95	28.98	28.99	29.00	29.00	29.02	29.03
28	29.05	29.05	29.06	29.06	29.06	29.07	29.08	29.09	29.09	29.10	29.10	29.11
29	29.08	29.08	29.08	29.08	29.08	29.08	29.08	29.08	29.08	29.08	29.08	29.08
30	28.82	28.80	28.77	28.74	28.72	28.71	28.69	28.68	28.67	28.66	28.64	28.63
Mean	29.059	29.059	29.062	29.059	29.058	29.060	29.061	29.061	29.060	29.060	29.058	29.058

GMT	13	14	15	16	17	18	19	20	21	22	23	24	Mean
Date													
1	28.97	28.96	28.96	28.95	28.94	28.94	28.95	28.96	28.98	29.00	29.02	29.04	28.966
2	29.36	29.38	29.39	29.41	29.43	29.43	29.44	29.46	29.47	29.48	29.49	29.50	29.328
3	29.49	29.48	29.46	29.44	29.42	29.41	29.40	29.39	29.38	29.36	29.35	29.34	29.458
4	29.22	29.22	29.21	29.21	29.21	29.20	29.21	29.21	29.22	29.22	29.23	29.24	29.245
5	29.38	29.38	29.39	29.40	29.40	29.41	29.42	29.43	29.43	29.44	29.44	29.44	29.363
6	29.36	29.35	29.34	29.33	29.33	29.32	29.31	29.31	29.31	29.30	29.29	29.27	29.362
7	29.16	29.16	29.17	29.18	29.18	29.20	29.21	29.23	29.25	29.28	29.33	29.39	29.218
8	29.53	29.53	29.53	29.54	29.55	29.56	29.56	29.57	29.57	29.57	29.58	29.58	29.516
9	29.57	29.56	29.55	29.54	29.53	29.52	29.52	29.51	29.50	29.50	29.48	29.46	29.550
10	29.28	29.27	29.25	29.24	29.23	29.22	29.22	29.21	29.21	29.21	29.21	29.20	29.286
11	29.05	29.03	29.00	28.97	28.94	28.90	28.88	28.87	28.86	28.83	28.83	28.81	29.026
12	28.73	28.73	28.72	28.72	28.72	28.73	28.74	28.75	28.77	28.79	28.79	28.79	28.762
13	28.91	28.91	28.90	28.89	28.88	28.87	28.87	28.87	28.87	28.87	28.87	28.87	28.879
14	29.01	29.04	29.06	29.08	29.08	29.10	29.12	29.14	29.16	29.17	29.18	29.19	29.010
15	29.20	29.20	29.20	29.20	29.20	29.20	29.20	29.20	29.20	29.20	29.20	29.19	29.199
16	28.83	28.81	28.78	28.76	28.73	28.71	28.71	28.71	28.72	28.73	28.75	28.76	28.911
17	28.79	28.74	28.72	28.72	28.71	28.71	28.72	28.72	28.73	28.75	28.76	28.77	28.772
18	28.79	28.79	28.79	28.78	28.77	28.75	28.75	28.74	28.74	28.74	28.74	28.74	28.779
19	28.74	28.74	28.75	28.75	28.75	28.75	28.75	28.75	28.75	28.75	28.75	28.75	28.739
20	28.83	28.84	28.85	28.86	28.87	28.88	28.90	28.91	28.93	28.95	28.96	28.98	28.830
21	29.07	29.07	29.07	29.07	29.08	29.08	29.08	29.08	29.08	29.09	29.10	29.10	29.054
22	29.11	29.10	29.10	29.10	29.09	29.08	29.08	29.08	29.08	29.08	29.08	29.08	29.097
23	29.10	29.10	29.11	29.12	29.12	29.13	29.13	29.13	29.13	29.13	29.13	29.13	29.105
24	29.05	29.04	29.03	29.02	29.01	29.01	29.00	28.98	28.96	28.94	28.93	28.91	29.044
25	28.57	28.54	28.53	28.49	28.48	28.47	28.45	28.45	*28.44*	*28.44*	*28.44*	*28.44*	*28.620*
26	28.68	28.70	28.71	28.73	28.75	28.78	28.80	28.81	28.83	28.85	28.87	28.89	28.659
27	29.04	29.05	29.05	29.05	29.05	29.05	29.05	29.05	29.05	29.05	29.04	29.04	29.006
28	29.11	29.11	29.11	29.11	29.10	29.09	29.09	29.09	29.09	29.08	29.08	29.08	29.086
29	29.07	29.05	29.04	29.01	28.99	28.97	28.98	28.96	28.93	28.89	28.86	28.84	29.023
30	28.61	28.60	28.58	28.56	28.55	28.53	28.53	28.52	28.52	28.51	28.51	28.50	28.627
Mean	29.054	29.049	29.045	29.041	29.036	29.033	29.036	29.036	29.039	29.040	29.043	29.044	29.050

TABLE 13a.—*Little America III, station pressure, hourly values*—Continued

MAY 1940

GMT	01	02	03	04	05	06	07	08	09	10	11	12
Date												
1	28.50	28.50	28.49	28.49	28.48	28.48	28.48	28.48	28.48	28.47	28.46	28.46
2	28.50	28.51	28.52	28.52	28.53	28.54	28.54	28.54	28.54	28.55	28.55	28.56
3	28.76	28.77	28.80	28.82	28.84	28.87	28.89	28.91	28.93	28.95	28.96	28.98
4	29.10	29.09	29.08	29.07	29.06	29.05	29.04	29.03	29.02	29.00	28.98	28.97
5	28.82	28.82	28.82	28.82	28.82	28.83	28.83	28.83	28.83	28.84	28.85	28.86
6	28.88	28.88	28.88	28.88	28.88	28.88	28.88	28.88	28.88	28.88	28.88	28.88
7	28.83	28.83	28.82	28.82	28.81	28.80	28.80	28.79	28.79	28.78	28.78	28.77
8	28.70	28.69	28.69	28.69	28.68	28.68	28.67	28.66	28.65	28.64	28.63	28.62
9	28.57	28.59	28.61	28.64	28.66	28.68	28.70	28.70	28.71	28.72	28.73	28.74
10	28.79	28.80	28.81	28.81	28.82	28.83	28.84	28.85	28.87	28.88	28.89	28.91
11	29.12	29.13	29.15	29.15	29.16	29.17	29.17	29.17	29.18	29.19	29.19	29.19
12	29.19	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.19	29.19
13	29.31	29.34	29.36	29.38	29.40	29.43	29.44	29.46	29.49	29.51	29.53	29.55
14	29.56	29.54	29.52	29.51	29.50	29.49	29.49	29.49	29.49	29.49	29.49	29.49
15	29.56	29.57	29.58	29.59	29.60	29.61	29.62	29.63	29.64	29.65	29.66	29.68
16	29.73	29.72	29.71	29.70	29.69	29.69	29.69	29.69	29.69	29.69	29.70	29.71
17	29.71	29.70	29.69	29.68	29.66	29.65	29.62	29.57	29.54	29.51	29.45	29.41
18	28.91	28.91	28.91	28.90	28.90	28.90	28.90	28.90	28.89	28.88	28.86	28.82
19	28.60	28.58	28.55	28.52	28.49	28.46	28.42	28.38	#8.35	28.36	28.36	28.36
20	28.60	28.61	28.64	28.66	28.72	28.76	28.80	28.83	28.86	28.88	28.91	28.93
21	28.89	28.89	28.88	28.88	28.87	28.86	28.85	28.85	28.84	28.83	28.81	28.80
22	28.75	28.75	28.75	28.75	28.76	28.78	28.79	28.79	28.80	28.82	28.83	28.84
23	29.00	29.00	29.01	29.02	29.03	29.04	29.05	29.07	29.08	29.09	29.11	29.12
24	29.29	29.29	29.29	29.29	29.30	29.30	29.31	29.32	29.32	29.32	29.32	29.32
25	29.48	29.49	29.49	29.49	29.50	29.50	29.50	29.50	29.50	29.50	29.49	29.48
26	29.34	29.32	29.30	29.27	29.24	29.23	29.23	29.20	29.19	29.17	29.14	29.09
27	28.67	28.65	28.63	28.61	28.60	28.59	28.58	28.57	28.55	28.53	28.51	28.50
28	28.61	28.63	28.67	28.70	28.73	28.76	28.79	28.83	28.87	28.91	28.94	28.98
29	28.93	28.93	28.94	28.95	28.96	28.97	28.98	29.00	29.02	29.04	29.04	29.06
30	29.24	29.24	29.24	29.24	29.23	29.21	29.20	29.18	29.16	29.15	29.14	29.13
31	28.97	28.97	28.97	28.95	28.93	28.92	28.89	28.87	28.85	28.84	28.83	28.82
Mean	28.997	28.997	28.999	29.000	29.01	29.004	29.005	29.005	29.006	29.008	29.007	29.007

GMT	13	14	15	16	17	18	19	20	21	22	23	24	Mean
Date													
1	28.46	28.46	28.47	28.47	28.47	28.48	28.48	28.49	28.49	28.50	28.50	28.50	28.480
2	28.57	28.58	28.58	28.59	28.62	28.63	28.63	28.66	28.67	28.68	28.70	28.73	28.585
3	29.00	29.01	29.02	29.03	29.05	29.06	29.06	29.07	29.08	29.08	29.09	29.09	28.963
4	28.95	28.92	28.90	28.88	28.87	28.84	28.83	28.83	28.82	28.82	28.82	28.82	28.950
5	28.86	28.86	28.87	28.87	28.87	28.88	28.88	28.88	28.88	28.88	28.88	28.88	28.852
6	28.88	28.88	28.88	28.87	28.87	28.86	28.86	28.85	28.85	28.84	28.84	28.84	28.870
7	28.76	28.75	28.74	28.73	28.72	28.72	28.72	28.71	28.71	28.70	28.70	28.70	28.762
8	28.62	28.61	28.60	28.59	28.58	28.57	28.57	28.57	28.57	28.57	28.57	28.56	28.624
9	28.74	28.74	28.75	28.76	28.77	28.78	28.78	28.78	28.78	28.78	28.79	28.79	28.720
10	28.92	28.94	28.96	28.97	28.98	29.00	29.02	29.03	29.04	29.06	29.08	29.10	28.925
11	29.19	29.19	29.18	29.18	29.17	29.16	29.17	29.17	29.18	29.18	29.19	29.19	29.172
12	29.19	29.20	29.20	29.21	29.21	29.22	29.23	29.24	29.25	29.26	29.27	29.29	29.307
13	29.57	29.58	29.59	29.60	29.61	29.62	29.63	29.62	29.61	29.60	29.59	29.58	29.517
14	29.49	29.49	29.50	29.50	29.51	29.52	29.53	29.53	29.54	29.54	29.55	29.55	29.513
15	29.69	29.70	29.71	29.71	29.72	29.72	29.72	29.73	29.73	29.73	29.73	29.73	29.667
16	29.71	29.71	29.71	29.71	29.72	29.72	29.72	29.72	29.72	29.72	29.72	29.72	29.709
17	29.35	29.27	29.22	29.17	29.12	29.07	29.03	28.99	28.97	28.95	28.93	28.91	29.340
18	28.82	28.81	28.76	28.74	28.72	28.69	28.68	28.66	28.65	28.64	28.64	28.62	28.796
19	28.38	28.42	28.44	28.46	28.49	28.52	28.54	28.55	28.56	28.56	28.56	28.58	#8,479
20	28.93	28.94	28.94	28.94	28.94	28.94	28.94	28.93	28.92	28.91	28.90	28.89	28.848
21	28.79	28.78	28.78	28.77	28.76	28.76	28.76	28.75	28.75	28.75	28.75	28.75	28.808
22	28.84	28.85	28.86	28.87	28.88	28.90	28.90	28.92	28.93	28.95	28.97	28.98	28.844
23	29.13	29.13	29.13	29.13	29.13	29.15	29.19	29.23	29.24	29.27	29.28	29.29	29.122
24	29.32	29.34	29.34	29.35	29.37	29.38	29.39	29.42	29.44	29.45	29.46	29.47	29.350
25	29.48	29.46	29.45	29.44	29.43	29.41	29.41	29.40	29.39	29.38	29.37	29.36	29.454
26	29.05	29.01	28.96	28.91	28.86	28.84	28.81	28.78	28.75	28.73	28.72	28.69	29.035
27	28.50	28.49	28.49	28.48	28.48	28.48	28.50	28.51	28.52	28.53	28.55	28.58	28.546
28	29.00	29.01	29.02	29.03	29.03	29.03	29.01	28.99	28.97	28.95	28.94	28.93	28.889
29	29.08	29.11	29.13	29.15	29.17	29.19	29.20	29.21	29.22	29.23	29.23	29.24	29.062
30	29.12	29.10	29.08	29.07	29.06	29.05	29.04	29.03	29.02	29.00	28.99	28.96	29.121
31	28.81	28.80	28.79	28.78	28.77	28.76	28.75	28.74	28.74	28.74	28.74	28.74	28.832
Mean	29.006	29.004	29.002	28.999	28.998	28.998	28.999	29.000	29.000	28.999	29.002	29.003	29.002

TABLE 13a.—*Little America III, station pressure, hourly values*—Continued

JUNE 1940

GMT.	01	02	03	04	05	06	07	08	09	10	11	12
Date												
1	28.74	28.74	28.74	28.74	28.75	28.76	28.78	28.80	28.82	28.85	28.89	28.93
2	29.28	29.28	29.29	29.30	29.30	29.31	29.30	29.29	29.28	29.28	29.27	29.26
3	29.12	29.11	29.10	29.10	29.10	29.10	29.10	29.10	29.10	29.10	29.10	29.10
4	29.11	29.11	29.11	29.10	29.10	29.09	29.08	29.07	29.05	29.05	29.04	29.04
5	29.03	29.03	29.03	29.04	29.05	29.06	29.06	29.07	29.08	29.09	29.10	29.10
6	29.18	29.18	29.18	29.18	29.19	29.18	29.19	29.21	29.22	29.23	29.25	29.27
7	29.41	29.42	29.43	29.43	29.44	29.44	29.44	29.44	29.44	29.44	29.43	29.43
8	29.29	29.27	29.25	29.22	29.19	29.16	29.14	29.11	29.08	29.05	28.99	28.97
9	28.69	28.68	28.67	28.66	28.64	28.62	28.61	28.60	28.59	28.59	28.59	28.59
10	28.79	28.81	28.84	28.88	28.92	28.96	29.00	29.03	29.05	29.07	29.08	29.08
11	29.39	29.40	29.41	29.42	29.42	29.42	29.42	29.42	29.41	29.40	29.39	29.38
12	29.15	29.13	29.11	29.08	29.06	29.03	29.01	28.99	28.98	28.96	28.94	28.92
13	28.99	29.03	29.06	29.09	29.12	29.14	29.16	29.18	29.20	29.22	29.23	29.24
14	29.05	29.00	28.95	28.92	28.89	28.87	28.84	28.80	28.77	28.74	28.72	28.70
15	28.67	28.68	28.69	28.71	28.72	28.73	28.75	28.77	28.79	28.82	28.86	28.88
16	28.98	28.99	28.99	28.99	28.99	29.00	28.99	28.98	28.98	28.98	28.97	28.96
17	29.03	29.05	29.06	29.07	29.08	29.10	29.12	29.14	29.14	29.14	29.15	29.16
18	29.22	29.22	29.22	29.22	29.22	29.22	29.22	29.22	29.23	29.23	29.23	29.23
19	29.24	29.24	29.23	29.23	29.23	29.22	29.22	29.21	29.20	29.19	29.18	29.17
20	29.16	29.17	29.17	29.17	29.17	29.17	29.16	29.15	29.16	29.15	29.14	29.13
21	28.89	28.87	28.84	28.82	28.80	28.78	28.77	28.77	28.76	28.76	28.76	28.76
22	28.69	28.67	28.66	28.64	28.62	28.58	28.54	28.51	28.47	28.44	28.42	28.42
23	28.38	28.39	28.40	28.40	28.40	28.41	28.42	28.43	28.44	28.45	28.46	28.46
24	28.53	28.55	28.56	28.57	28.58	28.59	28.60	28.61	28.61	28.61	28.61	28.62
25	28.67	28.67	28.67	28.67	28.67	28.67	28.67	28.66	28.67	28.67	28.66	28.66
26	28.71	28.70	28.70	28.69	28.68	28.67	28.67	28.66	28.65	28.64	28.63	28.65
27	28.93	28.95	28.97	28.99	29.03	29.06	29.10	29.14	29.18	29.21	29.22	29.23
28	28.96	28.95	28.94	28.92	28.92	28.91	28.90	28.89	28.89	28.89	28.89	28.89
29	28.96	28.97	28.98	28.98	29.00	29.01	29.01	29.01	29.02	29.01	29.00	28.99
30	28.62	28.60	28.61	28.62	28.63	28.64	28.65	28.67	28.69	28.71	28.73	28.75
Mean	28.962	28.962	28.962	28.962	28.964	28.963	28.964	28.964	28.965	28.966	28.964	28.966

GMT.	13	14	15	16	17	18	19	20	21	22	23	24	Mean
Date													
1	28.98	29.02	29.05	29.09	29.13	29.16	29.19	29.21	29.24	29.26	29.26	29.28	28.964
2	29.25	29.24	29.23	29.21	29.20	29.18	29.16	29.15	29.14	29.13	29.12	29.12	29.232
3	29.10	29.09	29.09	29.09	29.09	29.09	29.09	29.09	29.09	29.10	29.10	29.11	29.098
4	29.04	29.03	29.02	29.01	29.01	29.00	29.00	29.00	29.00	29.01	29.01	29.02	29.046
5	29.10	29.10	29.11	29.11	29.13	29.13	29.13	29.14	29.15	29.16	29.17	29.18	29.098
6	29.29	29.30	29.31	29.32	29.33	29.33	29.34	29.35	29.37	29.38	29.40	29.41	29.275
7	29.43	29.42	29.41	29.41	29.40	29.39	29.39	29.38	29.37	29.35	29.33	29.31	29.408
8	28.93	28.90	28.86	28.82	28.79	28.76	28.74	28.73	28.72	28.71	28.70	28.70	28.961
9	28.59	28.60	28.62	28.63	28.64	28.65	28.67	28.70	28.71	28.74	28.76	28.78	28.651
10	29.08	29.09	29.13	29.17	29.20	29.23	29.27	29.30	29.32	29.34	29.36	29.38	29.099
11	29.37	29.35	29.33	29.30	29.28	29.27	29.25	29.23	29.21	29.19	29.17	29.16	29.333
12	28.91	28.89	28.88	28.86	28.85	28.84	28.85	28.86	28.88	28.91	28.94	28.96	28.958
13	29.24	29.24	29.24	29.23	29.23	29.22	29.21	29.19	29.17	29.14	29.12	29.10	29.166
14	28.68	28.66	28.65	28.64	28.64	28.63	28.63	28.64	28.64	28.65	28.66	28.67	28.752
15	28.90	28.91	28.92	28.93	28.94	28.95	28.95	28.95	28.95	28.96	28.97	28.98	28.849
16	28.95	28.95	28.94	28.93	28.93	28.93	28.92	28.92	28.94	28.96	28.98	29.01	28.965
17	29.17	29.18	29.18	29.18	29.20	29.20	29.21	29.21	29.22	29.22	29.22	29.22	29.152
18	29.23	29.23	29.23	29.23	29.23	29.23	29.23	29.23	29.24	29.24	29.24	29.24	29.228
19	29.16	29.16	29.15	29.14	29.14	29.14	29.14	29.14	29.14	29.15	29.15	29.15	29.180
20	29.12	29.11	29.09	29.07	29.05	29.03	29.01	28.99	28.98	28.96	28.94	28.91	29.090
21	28.76	28.76	28.75	28.75	28.75	28.75	28.75	28.75	28.75	28.74	28.73	28.72	28.772
22	28.41	28.40	28.40	28.40	28.40	28.39	28.38	28.38	28.38	28.38	*28.37*	*28.37*	28.472
23	28.46	28.46	28.46	28.46	28.46	28.46	28.46	28.47	28.48	28.50	28.51	28.52	*28.447*
24	28.62	28.63	28.63	28.64	28.64	28.64	28.65	28.66	28.66	28.67	28.67	28.67	28.618
25	28.65	28.65	28.64	28.64	28.64	28.64	28.65	28.66	28.67	28.69	28.71	28.72	28.665
26	28.67	28.69	28.71	28.72	28.74	28.75	28.77	28.79	28.82	28.85	28.87	28.90	28.722
27	29.23	29.23	29.22	29.21	29.19	29.16	29.13	29.10	29.08	29.06	28.99	28.97	29.108
28	28.89	28.89	28.89	28.89	28.90	28.90	28.91	28.92	28.92	28.93	28.94	28.95	28.912
29	28.97	28.95	28.92	28.88	28.85	28.81	28.77	28.73	28.68	28.65	28.64	28.63	28.892
30	28.78	28.80	28.83	28.86	28.89	28.91	28.91	28.91	28.92	28.92	28.92	28.92	28.770
Mean	28.965	28.964	28.963	28.961	28.962	28.959	28.959	28.959	28.961	28.965	28.965	28.969	28.963

TABLE 13a.—*Little America III, station pressure, hourly values*—Continued

JULY 1940

GMT	01	02	03	04	05	06	07	08	09	10	11	12
Date												
1	28.91	28.90	28.89	28.88	28.87	28.86	28.84	28.83	28.81	28.78	28.77	28.75
2	28.85	28.89	28.93	28.95	28.97	28.98	29.00	29.02	29.05	29.07	29.10	29.12
3	29.10	29.07	29.04	29.00	28.98	28.96	28.94	28.92	28.89	28.87	28.85	28.83
4	28.86	28.85	28.84	28.83	28.82	28.81	28.80	28.79	28.78	28.77	28.76	28.76
5	28.83	28.84	28.85	28.86	28.87	28.88	28.88	28.89	28.90	28.90	28.90	28.90
6	28.84	28.84	28.84	28.84	28.83	28.83	28.82	28.81	28.81	28.81	28.80	28.80
7	28.76	28.76	28.76	28.76	28.77	28.77	28.77	28.77	28.77	28.77	28.77	28.78
8	28.87	28.87	28.88	28.88	28.89	28.89	28.89	28.89	28.89	28.89	28.89	28.90
9	28.82	28.80	28.80	28.79	28.79	28.79	28.79	28.78	28.78	28.80	28.80	28.80
10	29.26	29.29	29.32	29.36	29.39	29.42	29.44	29.46	29.50	29.52	29.54	29.56
11	29.64	29.63	29.60	29.57	29.53	29.49	29.45	29.40	29.35	29.31	29.27	29.24
12	29.08	29.08	29.08	29.08	29.08	29.08	29.08	29.09	29.09	29.09	29.10	29.10
13	29.14	29.14	29.14	29.14	29.14	29.14	29.14	29.14	29.15	29.16	29.16	29.17
14	29.24	29.24	29.23	29.23	29.23	29.22	29.21	29.20	29.20	29.18	29.16	29.14
15	28.95	28.92	28.89	28.87	28.85	28.82	28.79	28.77	28.75	28.73	28.71	28.69
16	28.65	28.66	28.67	28.68	28.69	28.71	28.72	28.73	28.74	28.74	28.75	28.74
17	28.52	28.50	28.48	28.47	28.46	28.44	28.44	28.44	28.44	28.44	28.44	28.44
18	28.48	28.48	28.48	28.49	28.49	28.49	28.49	28.49	28.49	28.50	28.50	28.50
19	28.51	28.51	28.51	28.51	28.51	28.51	28.52	28.52	28.53	28.54	28.55	28.56
20	28.55	28.56	28.59	28.60	28.63	28.67	28.71	28.75	28.79	28.83	28.84	28.86
21	28.79	28.77	28.75	28.73	28.71	28.69	28.69	28.70	28.70	28.71	28.72	28.73
22	28.99	29.01	29.03	29.05	29.07	29.10	29.13	29.16	29.18	29.21	29.24	29.28
23	29.44	29.43	29.41	29.40	29.39	29.38	29.38	29.37	29.37	29.36	29.36	29.36
24	29.44	29.46	29.47	29.50	29.52	29.55	29.58	29.60	29.62	29.63	29.65	29.66
25	29.64	29.63	29.62	29.61	29.59	29.57	29.56	29.54	29.52	29.50	29.47	29.42
26	29.00	28.97	28.94	28.92	28.91	28.90	28.89	28.86	28.85	28.83	28.80	28.80
27	28.74	28.74	28.75	28.76	28.76	28.77	28.77	28.77	28.77	28.77	28.77	28.76
28	28.72	28.73	28.73	28.73	28.73	28.73	28.73	28.73	28.72	28.72	28.71	28.70
29	28.71	28.71	28.71	28.72	28.73	28.73	28.75	28.77	28.78	28.79	28.80	28.82
30	29.01	29.03	29.04	29.05	29.06	29.07	29.07	29.06	29.06	29.06	29.05	29.04
31	28.74	28.71	28.69	28.67	28.64	28.61	28.60	28.60	28.58	28.57	28.57	28.56
Mean	28.938	28.936	28.934	28.933	28.932	28.931	28.931	28.931	28.931	28.931	28.929	28.928

GMT	13	14	15	16	17	18	19	20	21	22	23	24	Mean
Date													
1	28.74	28.73	28.73	28.73	28.72	28.72	28.73	28.74	28.75	28.77	28.80	28.82	28.795
2	29.13	29.14	29.16	29.18	29.19	29.21	29.21	29.20	29.19	29.18	29.16	29.13	29.084
3	28.83	28.83	28.83	28.83	28.83	28.83	28.83	28.84	28.84	28.85	28.85	28.86	28.896
4	28.76	28.76	28.76	28.77	28.77	28.77	28.77	28.77	28.78	28.79	28.80	28.81	28.791
5	28.90	28.90	28.90	28.90	28.89	28.89	28.89	28.88	28.87	28.86	28.85	28.84	28.878
6	28.80	28.79	28.78	28.77	28.77	28.77	28.77	28.77	28.77	28.76	28.76	28.76	28.798
7	28.78	28.78	28.78	28.78	28.78	28.79	28.80	28.82	28.83	28.85	28.85	28.85	28.788
8	28.90	28.90	28.90	28.90	28.90	28.89	28.89	28.88	28.88	28.87	28.86	28.84	28.885
9	28.82	28.85	28.89	28.92	28.95	28.99	29.03	29.06	29.11	29.15	29.17	29.21	28.904
10	29.58	29.60	29.61	29.62	29.66	29.66	29.66	29.66	29.66	29.65	29.65	29.65	29.530
11	29.20	29.17	29.14	29.12	29.10	29.08	29.07	29.07	29.07	29.07	29.07	29.07	29.280
12	29.10	29.10	29.10	29.11	29.11	29.12	29.12	29.13	29.13	29.13	29.13	29.14	29.102
13	29.19	29.20	29.21	29.21	29.24	29.27	29.26	29.26	29.26	29.26	29.25	29.24	29.192
14	29.13	29.12	29.11	29.10	29.09	29.08	29.06	29.05	29.04	29.02	29.00	28.98	29.136
15	28.68	28.67	28.66	28.65	28.63	28.63	28.63	28.63	28.63	28.63	28.64	28.64	28.728
16	28.73	28.73	28.73	28.71	28.69	28.66	28.65	28.64	28.61	28.58	28.56	28.53	28.679
17	28.44	28.44	*28.45*	*28.45*	*28.45*	*28.45*	28.44	28.45	28.46	28.47	28.48	28.48	*28.454*
18	28.50	28.50	28.50	28.50	28.50	28.50	28.50	28.50	28.51	28.51	28.51	28.51	28.497
19	28.58	28.58	28.58	28.57	28.57	28.58	28.58	28.58	28.58	28.57	28.56	28.55	28.548
20	28.87	28.87	28.88	28.89	28.89	28.90	28.90	28.89	28.88	28.86	28.84	28.81	28.786
21	28.75	28.77	28.78	28.80	28.81	28.83	28.85	28.88	28.89	28.91	28.92	28.97	28.785
22	29.29	29.32	29.36	29.38	29.40	29.42	29.42	29.43	29.43	29.44	29.45	29.45	29.260
23	29.36	29.35	29.35	29.35	29.34	29.34	29.34	29.35	29.36	29.38	29.40	29.42	29.375
24	29.66	29.67	**29.68**	**29.68**	**29.68**	**29.68**	29.67	29.67	29.66	29.66	29.65	29.64	**29.612**
25	29.40	29.39	29.35	29.28	29.25	29.20	29.16	29.12	29.09	29.05	29.03	29.01	29.375
26	28.79	28.78	28.76	28.75	28.74	28.73	28.73	28.73	28.73	28.73	28.74	28.74	28.818
27	28.76	28.76	28.75	28.75	28.74	28.73	28.73	28.73	28.73	28.73	28.73	28.72	28.750
28	28.70	28.71	28.70	28.70	28.68	28.68	28.68	28.68	28.69	28.69	28.70	28.70	28.708
29	28.83	28.85	28.87	28.88	28.90	28.91	28.92	28.94	28.96	28.97	28.98	29.00	28.835
30	29.03	29.02	29.00	28.98	28.96	28.93	28.92	28.89	28.86	28.83	28.79	28.76	28.982
31	28.57	28.57	28.58	28.58	28.58	28.59	28.59	28.59	28.59	28.60	28.61	28.62	28.609
Mean	28.929	28.931	28.931	28.930	28.929	28.929	28.929	28.930	28.930	28.930	28.929	28.927	28.931

TABLE 13a.—*Little America III, station pressure, hourly values*—Continued

AUGUST 1940

GMT	01	02	03	04	05	06	07	08	09	10	11	12
Date												
1	28.62	28.62	28.63	28.64	28.65	28.67	28.69	28.69	28.70	28.71	28.75	28.76
2	28.78	28.77	28.78	28.78	28.78	28.79	28.79	28.78	28.77	28.77	28.76	28.74
3	28.86	28.86	28.86	28.86	28.87	28.87	28.86	28.85	28.84	28.82	28.81	28.80
4	28.59	28.59	28.57	28.56	28.55	28.54	28.52	28.51	28.50	28.48	28.46	28.43
5	28.33	28.33	28.33	28.33	28.33	28.32	28.32	28.31	28.31	28.30	28.30	28.30
6	28.28	28.28	28.28	28.28	28.28	28.30	28.30	28.30	28.30	28.30	28.31	28.32
7	28.37	28.38	28.40	28.42	28.44	28.45	28.47	28.49	28.51	28.52	28.54	28.56
8	28.70	28.72	28.74	28.75	28.76	28.78	28.81	28.83	28.85	28.87	28.89	28.91
9	28.85	28.82	28.79	28.75	28.73	28.71	28.69	28.66	28.66	28.64	28.62	28.60
10	28.65	28.65	28.65	28.65	28.65	28.64	28.63	28.61	28.58	28.51	28.47	28.43
11	28.31	28.31	28.32	28.33	28.34	28.35	28.37	28.39	28.41	28.43	28.46	28.48
12	28.72	28.73	28.74	28.74	28.75	28.75	28.75	28.74	28.73	28.72	28.69	28.66
13	28.61	28.61	28.61	28.61	28.60	28.61	28.60	28.59	28.57	28.55	28.52	28.47
14	28.65	28.64	28.63	28.60	28.56	28.53	28.51	28.49	28.47	28.45	28.42	28.40
15	28.40	28.41	28.41	28.42	28.43	28.44	28.44	28.44	28.45	28.45	28.45	28.45
16	28.51	28.52	28.53	28.54	28.56	28.56	28.56	28.57	28.58	28.59	28.60	28.61
17	28.67	28.67	28.67	28.68	28.69	28.70	28.70	28.70	28.70	28.70	28.70	28.70
18	28.61	28.60	28.58	28.56	28.55	28.53	28.51	28.48	28.45	28.43	28.41	28.36
19	27.96	27.95	27.93	27.90	27.88	27.86	27.84	27.83	27.82	27.79	*27.78*	*27.78*
20	28.27	28.33	28.41	28.48	28.55	28.61	28.68	28.73	28.79	28.83	28.87	28.89
21	28.78	28.78	28.77	28.75	28.75	28.75	28.75	28.76	28.76	28.75	28.74	28.73
22	28.46	28.46	28.46	28.47	28.48	28.50	28.53	28.56	28.59	28.65	28.68	28.72
23	**29.12**	**29.11**	29.10	29.08	29.05	29.02	28.98	28.95	28.90	28.87	28.83	28.81
24	28.79	28.78	28.77	28.76	28.75	28.74	28.73	28.73	28.72	28.71	28.70	28.68
25	28.39	28.38	28.37	28.37	28.36	28.35	28.35	28.35	28.34	28.34	28.35	28.35
26	28.45	28.45	28.45	28.45	28.44	28.43	28.44	28.44	28.44	28.44	28.44	28.44
27	28.40	28.41	28.42	28.43	28.44	28.45	28.45	28.47	28.50	28.53	28.56	28.59
28	28.87	28.86	28.86	28.86	28.86	28.85	28.84	28.82	28.81	28.80	28.79	28.77
29	28.74	28.76	28.77	28.78	28.79	28.81	28.81	28.82	28.82	28.83	28.84	28.84
30	28.81	28.80	28.79	28.78	28.77	28.77	28.77	28.76	28.76	28.76	28.75	28.74
31	28.67	28.67	28.68	28.68	28.69	28.70	28.70	28.71	28.72	28.73	28.73	28.74
Mean	28.588	28.589	28.590	28.590	28.591	28.593	28.593	28.592	28.592	28.589	28.588	28.583

GMT	13	14	15	16	17	18	19	20	21	22	23	24	Mean
Date													
1	28.76	28.78	28.79	28.80	28.80	28.80	28.80	28.80	28.80	28.80	28.79	28.78	28.735
2	28.76	28.77	28.78	28.79	28.80	28.81	28.82	28.83	28.84	28.85	28.85	28.86	28.794
3	28.78	28.76	28.75	28.73	28.71	28.69	28.68	28.67	28.65	28.63	28.62	28.61	28.768
4	28.40	28.39	28.38	28.38	28.37	28.37	28.36	28.35	28.34	28.34	28.34	28.33	28.444
5	28.30	28.30	28.29	28.28	28.27	28.26	28.26	28.26	28.27	28.27	28.27	28.28	28.297
6	28.33	28.33	28.34	28.34	28.35	28.36	28.36	28.36	28.36	28.36	28.37	28.37	28.323
7	28.58	28.60	28.61	28.62	28.63	28.65	28.65	28.65	28.65	28.66	28.67	28.68	28.550
8	28.92	28.93	28.93	28.93	28.93	28.93	28.92	28.92	28.91	28.90	28.89	28.87	28.858
9	28.60	28.59	28.59	28.58	28.58	28.57	28.58	28.59	28.60	28.62	28.63	28.65	28.654
10	28.41	28.40	28.40	28.38	28.37	28.35	28.33	28.32	28.32	28.31	28.31	28.31	28.472
11	28.50	28.52	28.54	28.56	28.58	28.60	28.62	28.63	28.64	28.67	28.68	28.69	28.489
12	28.65	28.63	28.62	28.62	28.61	28.61	28.61	28.61	28.61	28.61	28.61	28.62	28.672
13	28.47	28.49	28.50	28.52	28.54	28.56	28.58	28.61	28.63	28.63	28.63	28.65	28.573
14	28.39	28.38	28.37	28.36	28.35	28.34	28.35	28.35	28.35	28.36	28.38	28.39	28.447
15	28.45	28.45	28.45	28.45	28.45	28.45	28.46	28.47	28.48	28.49	28.50	28.51	28.450
16	28.61	28.61	28.62	28.62	28.63	28.63	28.63	28.64	28.65	28.66	28.67	28.67	28.599
17	28.70	28.70	28.69	28.69	28.68	28.67	28.66	28.66	28.66	28.64	28.63	28.62	28.678
18	28.35	28.33	28.29	28.25	28.22	28.18	28.15	28.11	28.08	28.03	28.01	27.98	28.335
19	*27.78*	*27.78*	27.79	27.80	27.82	27.87	27.92	27.98	28.03	28.10	28.17	28.22	*27.899*
20	28.91	28.90	28.90	28.89	28.88	28.88	28.87	28.85	28.81	28.79	28.78	28.79	28.737
21	28.71	28.69	28.67	28.65	28.63	28.61	28.58	28.55	28.52	28.49	28.48	28.46	28.671
22	28.78	28.82	28.86	28.91	28.96	29.00	29.02	29.06	29.09	29.11	**29.12**	**29.12**	28.767
23	28.80	28.79	28.79	28.79	28.79	28.79	28.78	28.78	28.79	28.80	28.80	28.80	28.888
24	28.67	28.65	28.64	28.62	28.59	28.55	28.53	28.51	28.48	28.46	28.45	28.40	28.642
25	28.37	28.38	28.40	28.42	28.43	28.44	28.44	28.44	28.45	28.45	28.45	28.45	28.392
26	28.43	28.42	28.41	28.40	28.40	28.40	28.40	28.40	28.40	28.40	28.39	28.39	28.438
27	28.62	28.64	28.66	28.69	28.72	28.76	28.79	28.81	28.83	28.84	28.85	28.86	28.613
28	28.76	28.75	28.74	28.73	28.71	28.70	28.70	28.70	28.70	28.71	28.72	28.73	28.777
29	28.84	28.84	28.84	28.84	28.84	28.84	28.83	28.83	28.83	28.82	28.82	28.82	28.817
30	28.73	28.72	28.71	28.70	28.69	28.68	28.67	28.66	28.66	28.66	28.66	28.66	28.728
31	28.74	28.75	28.77	28.78	28.78	28.79	28.80	28.81	28.83	28.84	28.85	28.87	28.751
Mean	28.584	28.584	28.585	28.585	28.584	28.585	28.585	28.587	28.589	28.590	28.593	28.595	28.583

TABLE 13a.—*Little America III, station pressure, hourly values*—Continued

SEPTEMBER 1940

GMT	01	02	03	04	05	06	07	08	09	10	11	12
Date												
1	28.87	28.88	28.89	28.90	28.91	28.92	28.94	28.95	28.96	28.97	28.98	28.99
2	29.00	28.99	28.98	28.96	28.95	28.94	28.92	28.91	28.89	28.87	28.86	28.84
3	28.62	28.62	28.62	28.61	28.60	28.59	28.59	28.59	28.59	28.58	28.57	28.57
4	28.61	28.60	28.60	28.59	28.59	28.58	28.58	28.58	28.58	28.58	28.58	28.58
5	28.52	28.50	28.49	28.49	28.49	28.49	28.48	28.48	28.47	28.46	28.46	28.47
6	28.48	28.49	28.49	28.50	28.54	28.55	28.55	28.56	28.56	28.56	28.56	28.56
7	28.56	28.56	28.50	28.52	28.55	28.55	28.54	28.54	28.54	28.54	28.55	28.55
8	28.56	28.56	28.56	28.57	28.56	28.60	28.62	28.63	28.65	28.68	28.70	28.72
9	28.93	28.92	28.92	28.58	28.60	28.88	28.87	28.84	28.83	28.81	28.79	28.77
10	28.62	28.62	28.61	28.60	28.90	28.62	28.64	28.66	28.68	28.70	28.73	28.77
11	29.01	29.02	29.02	29.03	29.04	29.05	29.05	29.06	29.06	29.06	29.06	29.06
12	29.07	29.07	29.06	29.05	29.05	29.05	29.05	29.05	29.05	29.05	29.05	29.04
13	28.89	28.88	28.87	28.85	28.83	28.82	28.82	28.82	28.82	28.81	28.81	28.81
14	28.89	28.89	28.88	28.88	28.87	28.86	28.85	28.84	28.84	28.82	28.80	28.78
15	28.67	28.67	28.67	28.65	28.65	28.65	28.65	28.64	28.63	28.63	28.62	28.61
16	28.71	28.72	28.73	28.74	28.75	28.76	28.76	28.76	28.77	28.77	28.78	28.78
17	28.73	28.72	28.71	28.70	28.70	28.68	28.68	28.67	28.65	28.65	28.65	28.65
18	28.79	28.80	28.80	28.81	28.82	28.82	28.82	28.82	28.82	28.82	28.82	28.82
19	28.85	28.85	28.85	28.85	28.86	28.87	28.88	28.89	28.90	28.90	28.90	28.91
20	28.84	28.83	28.81	28.80	28.79	28.78	28.77	28.76	28.75	28.73	28.72	28.71
21	28.52	28.50	28.48	28.46	28.45	28.44	28.42	28.40	28.40	28.39	28.38	28.38
22	28.51	28.52	28.54	28.56	28.58	28.60	28.62	28.64	28.65	28.67	28.69	28.71
23	28.76	28.75	28.74	28.72	28.71	28.69	28.67	28.63	28.60	28.57	28.52	28.48
24	27.57	27.53	27.49	27.46	27.45	27.44	27.44	27.47	27.53	27.59	27.64	27.69
25	27.87	27.87	27.88	27.88	27.88	27.89	27.96	28.03	28.06	28.11	28.16	28.21
26	28.69	28.72	28.73	28.75	28.78	28.81	28.83	28.85	28.86	28.86	28.88	28.88
27	28.77	28.78	28.80	28.81	28.83	28.85	28.86	28.87	28.88	28.88	28.89	28.89
28	28.72	28.70	28.68	28.66	28.64	28.62	28.61	28.60	28.60	28.60	28.59	28.58
29	28.57	28.55	28.52	28.48	28.44	28.42	28.40	28.36	28.35	28.36	28.36	28.37
30	28.60	28.60	28.60	28.60	28.59	28.58	28.58	28.57	28.57	28.56	28.54	28.53
Mean	28.660	28.657	28.654	28.648	28.648	28.647	28.648	28.649	28.651	28.653	28.655	28.657

GMT	13	14	15	16	17	18	19	20	21	22	23	24	Mean
Date													
1	28.99	28.99	28.99	28.99	28.99	28.99	28.99	29.00	29.00	29.00	29.00	29.00	28.962
2	28.82	28.80	28.79	28.76	28.75	28.74	28.72	28.69	28.68	28.66	28.65	28.64	28.825
3	28.58	28.59	28.59	28.60	28.60	28.61	28.61	28.61	28.61	28.61	28.61	28.61	28.599
4	28.57	28.57	28.57	28.57	28.56	28.55	28.54	28.54	28.54	28.54	28.54	28.53	28.570
5	28.46	28.46	28.45	28.45	28.45	28.44	28.45	28.45	28.46	28.46	28.46	28.47	28.469
6	28.56	28.56	28.55	28.54	28.54	28.54	28.55	28.55	28.55	28.56	28.56	28.56	28.544
7	28.55	28.55	28.55	28.55	28.54	28.55	28.56	28.55	28.55	28.54	28.55	28.56	28.551
8	28.73	28.75	28.77	28.78	28.79	28.82	28.85	28.87	28.88	28.89	28.91	28.93	28.727
9	28.75	28.74	28.72	28.69	28.66	28.66	28.65	28.64	28.63	28.62	28.62	28.62	28.765
10	28.79	28.81	28.83	28.85	28.87	28.89	28.91	28.93	28.94	28.95	28.98	29.00	28.775
11	29.06	29.06	29.06	29.06	29.06	29.06	29.06	29.06	29.06	29.06	29.06	29.06	29.052
12	29.03	29.03	29.02	29.01	29.00	28.99	28.98	28.97	28.96	28.94	28.93	28.91	29.017
13	28.81	28.82	28.82	28.83	28.84	28.85	28.86	28.87	28.87	28.87	28.88	28.89	28.843
14	28.77	28.76	28.75	28.75	28.74	28.73	28.72	28.71	28.70	28.70	28.69	28.68	28.788
15	28.60	28.61	28.61	28.62	28.62	28.62	28.62	28.63	28.64	28.65	28.67	28.69	28.638
16	28.78	28.78	28.77	28.77	28.77	28.77	28.77	28.76	28.76	28.76	28.75	28.75	28.759
17	28.65	28.66	28.67	28.69	28.71	28.72	28.73	28.74	28.76	28.77	28.78	28.78	28.702
18	28.82	28.82	28.82	28.83	28.83	28.83	28.83	28.83	28.83	28.83	28.83	28.84	28.821
19	28.91	28.91	28.90	28.90	28.90	28.89	28.88	28.88	28.88	28.88	28.87	28.85	28.881
20	28.69	28.68	28.67	28.66	28.65	28.64	28.62	28.60	28.58	28.56	28.54	28.53	28.696
21	28.38	28.39	28.39	28.40	28.41	28.43	28.44	28.45	28.47	28.48	28.49	28.50	28.435
22	28.73	28.73	28.74	28.75	28.76	28.77	28.77	28.77	28.77	28.77	28.77	28.77	28.683
23	28.42	28.36	28.29	28.22	28.16	28.10	28.02	27.94	27.85	27.78	27.70	27.65	28.347
24	27.73	27.75	27.78	27.80	27.82	27.83	27.84	27.84	27.85	27.85	27.86	27.86	#7.670
25	28.27	28.31	28.34	28.38	28.40	28.43	28.47	28.50	28.54	28.59	28.63	28.66	28.222
26	28.87	28.86	28.85	28.83	28.81	28.79	28.79	28.78	28.78	28.77	28.76	28.76	28.804
27	28.89	28.89	28.88	28.88	28.88	28.87	28.85	28.83	28.82	28.79	28.77	28.75	28.842
28	28.57	28.58	28.59	28.60	28.55	28.62	28.63	28.62	28.61	28.60	28.59	28.58	28.617
29	28.40	28.44	28.47	28.47	28.46	28.58	28.60	28.61	28.62	28.62	28.61	28.60	28.491
30	28.51	28.49	28.48	28.51	28.47	28.45	28.44	28.45	28.46	28.47	28.49	28.51	28.525
Mean	28.656	28.658	28.657	28.658	28.658	28.659	28.658	28.656	28.655	28.652	28.652	28.651	28.654

TABLE 13a.—*Little America III, station pressure, hourly values*—Continued

OCTOBER 1940

GMT	01	02	03	04	05	06	07	08	09	10	11	12
Date												
1	28.53	28.55	28.57	28.60	28.62	28.66	28.71	28.76	28.80	28.86	28.92	28.97
2	29.13	29.13	29.14	29.14	29.15	29.16	29.19	29.21	29.23	29.24	29.25	29.26
3	29.18	29.16	29.13	29.11	29.09	29.06	29.05	29.03	29.00	28.97	28.94	28.90
4	28.28	28.23	28.21	28.17	28.15	28.12	28.08	28.06	28.02	27.98	27.95	27.91
5	28.12	28.15	28.18	28.21	28.23	28.25	28.26	28.29	28.32	28.35	28.38	28.41
6	28.82	28.83	28.86	28.88	28.91	28.93	28.95	28.97	28.99	29.02	29.04	29.06
7	29.29	29.30	29.30	29.30	29.30	29.30	29.29	29.28	29.27	29.25	29.24	29.22
8	28.91	28.88	28.86	28.83	28.81	28.79	28.76	28.73	28.71	28.69	28.68	28.66
9	28.60	28.60	28.60	28.60	28.61	28.61	28.61	28.61	28.62	28.62	28.62	28.62
10	28.63	28.64	28.65	28.67	28.68	28.69	28.72	28.75	28.78	28.80	28.82	28.84
11	28.91	28.90	28.89	28.88	28.87	28.85	28.84	28.82	28.80	28.79	28.76	28.72
12	28.46	28.45	28.42	28.41	28.41	28.40	28.38	28.36	28.35	28.34	28.33	28.32
13	28.42	28.44	28.46	28.48	28.51	28.53	28.56	28.59	28.61	28.63	28.66	28.68
14	28.81	28.80	28.78	28.77	28.76	28.75	28.74	28.72	28.70	28.68	28.65	28.62
15	28.56	28.56	28.56	28.57	28.58	28.60	28.62	28.64	28.65	28.66	28.67	28.67
16	28.46	28.44	28.41	28.40	28.38	28.35	28.32	28.30	28.27	28.24	28.22	28.20
17	28.10	28.12	28.14	28.16	28.17	28.19	28.21	28.23	28.25	28.26	28.27	28.28
18	28.24	28.23	28.23	28.23	28.21	28.19	28.16	28.15	28.13	28.12	28.11	28.11
19	28.16	28.16	28.17	28.19	28.20	28.20	28.21	28.21	28.21	28.21	28.22	28.23
20	28.38	28.40	28.41	28.43	28.45	28.47	28.49	28.50	28.51	28.52	28.52	28.53
21	28.47	28.46	28.45	28.44	28.44	28.44	28.44	28.44	28.45	28.46	28.47	28.48
22	28.62	28.63	28.63	28.63	28.63	28.64	28.65	28.66	28.67	28.68	28.69	28.69
23	28.76	28.76	28.76	28.77	28.78	28.80	28.80	28.81	28.82	28.83	28.84	28.85
24	28.86	28.85	28.84	28.84	28.84	28.84	28.84	28.84	28.84	28.84	28.84	28.84
25	28.79	28.79	28.78	28.78	28.78	28.78	28.77	28.77	28.76	28.76	28.75	28.75
26	28.70	28.69	28.69	28.69	28.68	28.68	28.68	28.68	28.68	28.67	28.66	28.65
27	28.59	28.58	28.57	28.56	28.55	28.54	28.53	28.52	28.50	28.49	28.48	28.46
28	28.38	28.38	28.38	28.38	28.37	28.37	28.37	28.37	28.37	28.38	28.38	28.38
29	28.43	28.43	28.44	28.46	28.49	28.51	28.51	28.52	28.54	28.55	28.57	28.59
30	28.71	28.71	28.71	28.71	28.71	28.71	28.71	28.71	28.71	28.71	28.70	28.69
31	28.60	28.60	28.60	28.60	28.61	28.62	28.63	28.63	28.63	28.64	28.65	28.66
Mean	28.610	28.608	28.607	28.606	28.612	28.614	28.615	28.618	28.619	28.621	28.622	28.621

GMT	13	14	15	16	17	18	19	20	21	22	23	24	Mean
Date													
1	28.99	29.00	29.02	29.04	29.06	29.08	29.09	29.10	29.11	29.12	29.12	29.12	28.802
2	29.26	29.26	29.25	29.25	29.24	29.24	29.24	29.23	29.22	29.21	29.20	29.19	**29.209**
3	28.88	28.85	28.82	28.78	28.73	28.68	28.63	28.58	28.52	28.46	28.39	28.32	28.844
4	27.87	27.84	*27.81*	27.84	27.87	27.90	27.94	27.97	27.99	28.01	28.05	28.09	*28.014*
5	28.45	28.49	28.53	28.55	28.59	28.62	28.66	28.69	28.72	28.76	28.78	28.80	28.450
6	28.08	29.11	29.14	29.16	29.18	29.20	29.22	29.23	29.25	29.27	29.28	29.29	29.070
7	29.20	29.18	29.16	29.15	29.12	29.10	29.08	29.05	29.02	29.00	28.97	28.94	29.180
8	28.64	28.62	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.690
9	28.62	28.62	28.62	28.61	28.61	28.61	28.61	28.62	28.62	28.62	28.62	28.62	28.613
10	28.86	28.88	28.89	28.90	28.91	28.92	28.93	28.94	28.93	28.92	28.91	28.91	28.815
11	28.70	28.68	28.66	28.64	28.62	28.60	28.58	28.56	28.55	28.53	28.51	28.49	28.714
12	28.31	28.32	28.33	28.34	28.34	28.34	28.35	28.36	28.37	28.38	28.39	28.41	28.370
13	28.70	28.71	28.73	28.75	28.77	28.79	28.80	28.81	28.82	28.82	28.82	28.82	28.663
14	28.59	28.57	28.55	28.54	28.53	28.52	28.53	28.54	28.55	28.56	28.56	28.56	28.641
15	28.67	28.67	28.67	28.66	28.66	28.64	28.63	28.61	28.58	28.54	28.52	28.49	28.612
16	28.19	28.18	28.17	28.14	28.11	28.09	28.09	28.09	28.09	28.09	28.09	28.09	28.225
17	28.30	28.30	28.30	28.31	28.32	28.32	28.32	28.32	28.31	28.30	28.29	28.27	28.252
18	28.10	28.10	28.10	28.09	28.10	28.10	28.10	28.10	28.11	28.12	28.13	28.14	28.142
19	28.24	28.24	28.25	28.25	28.26	28.27	28.28	28.29	28.30	28.32	28.34	28.36	28.240
20	28.53	28.53	28.53	28.53	28.53	28.53	28.52	28.52	28.51	28.50	28.49	28.48	28.492
21	28.49	28.50	28.52	28.53	28.55	28.57	28.59	28.60	28.61	28.62	28.62	28.62	28.511
22	28.70	28.70	28.70	28.70	28.70	28.71	28.71	28.72	28.72	28.73	28.74	28.74	28.683
23	28.86	28.86	28.86	28.86	28.87	28.87	28.87	28.87	28.87	28.87	28.87	28.87	28.832
24	28.84	28.84	28.84	28.83	28.83	28.83	28.83	28.83	28.82	28.81	28.80	28.79	28.833
25	28.74	28.73	28.72	28.71	28.70	28.69	28.69	28.69	28.69	28.70	28.70	28.70	28.738
26	28.65	28.64	28.64	28.64	28.64	28.62	28.62	28.62	28.62	28.62	28.61	28.60	28.653
27	28.45	28.43	28.42	28.41	28.40	28.39	28.39	28.39	28.39	28.39	28.39	28.39	28.467
28	28.38	28.38	28.38	28.39	28.39	28.39	28.39	28.39	28.40	28.40	28.41	28.42	28.385
29	28.60	28.61	28.62	28.63	28.64	28.65	28.66	28.67	28.68	28.69	28.70	28.71	28.579
30	28.68	28.67	28.65	28.64	28.63	28.62	28.62	28.60	28.60	28.60	28.60	28.60	28.667
31	28.67	28.68	28.68	28.68	28.69	28.70	28.71	28.73	28.75	28.78	28.79	28.81	28.672
Mean	28.621	28.619	28.618	28.618	28.619	28.619	28.622	28.623	28.623	28.624	28.622	28.621	28.619

TABLE 13a.—*Little America III, station pressure, hourly values*—Continued

NOVEMBER 1940

GMT	01	02	03	04	05	06	07	08	09	10	11	12
Date												
1	28.82	28.83	28.84	28.86	28.87	28.88	28.88	28.88	28.87	28.86	28.85	28.84
2	28.90	28.91	28.92	28.93	28.95	28.97	28.99	29.01	29.03	29.04	29.05	29.06
3	29.24	29.25	29.26	29.27	29.28	29.29	29.30	29.31	29.32	29.33	29.34	29.35
4	29.48	29.48	29.48	29.48	29.48	29.48	29.48	29.47	29.46	29.45	29.44	29.43
5	29.25	29.24	29.23	29.22	29.20	29.19	29.17	29.16	29.15	29.14	29.12	29.10
6	28.88	28.86	28.84	28.83	28.83	28.81	28.80	28.78	28.76	28.73	28.71	28.70
7	28.67	28.68	28.69	28.70	28.72	28.75	28.76	28.77	28.78	28.80	28.82	28.84
8	29.02	29.04	29.06	29.08	29.10	29.11	29.12	29.13	29.14	29.15	29.16	29.18
9	29.14	29.13	29.13	29.12	29.12	29.12	29.12	29.11	29.11	29.11	29.10	29.10
10	29.06	29.06	29.06	29.06	29.06	29.06	29.06	29.06	29.06	29.06	29.06	29.06
11	29.12	29.12	29.12	29.12	29.13	29.14	29.15	29.16	29.16	29.17	29.17	29.18
12	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.20	29.19	29.18	29.17
13	28.99	28.99	28.99	28.98	28.98	28.98	28.98	28.97	28.96	28.94	28.93	28.92
14	28.78	28.78	28.79	28.79	28.79	28.79	28.79	28.79	28.79	28.80	28.81	28.82
15	28.92	28.92	28.93	28.93	28.94	28.94	28.94	28.95	28.95	28.96	28.96	28.96
16	29.02	29.03	29.03	29.03	29.03	29.03	29.03	29.03	29.03	29.02	29.01	29.00
17	29.00	29.01	29.02	29.03	29.03	29.04	29.05	29.06	29.07	29.07	29.08	29.09
18	29.23	29.24	29.25	29.26	29.27	29.28	29.29	29.29	29.30	29.30	29.31	29.31
19	29.34	29.34	29.34	29.34	29.34	29.33	29.32	29.32	29.32	29.31	29.30	29.29
20	29.28	29.28	29.27	29.26	29.25	29.24	29.24	29.24	29.23	29.23	29.22	29.22
21	29.25	29.26	29.27	29.28	29.29	29.30	29.31	29.31	29.32	29.32	29.33	29.33
22	29.29	29.27	29.25	29.23	29.21	29.19	29.17	29.15	29.13	29.11	29.09	29.08
23	28.89	28.88	28.87	28.86	28.86	28.86	28.86	28.86	28.86	28.86	28.86	28.86
24	28.86	28.86	28.86	28.86	28.86	28.86	28.86	28.86	28.86	28.87	28.87	28.88
25	28.92	28.92	28.92	28.92	28.92	28.92	28.92	28.93	28.93	28.93	28.94	28.94
26	28.89	28.88	28.87	28.86	28.85	28.85	28.85	28.85	28.85	28.84	28.83	28.82
27	28.79	28.79	28.78	28.78	28.78	28.78	28.78	28.78	28.78	28.78	28.78	28.78
28	28.76	28.76	28.76	28.76	28.76	28.76	28.76	28.76	28.76	28.76	28.76	28.76
29	28.83	28.84	28.85	28.86	28.88	28.89	28.90	28.91	28.92	28.93	28.94	28.95
30	29.13	29.14	29.15	29.16	29.17	29.18	29.19	29.19	29.20	29.21	29.21	29.21
Mean	29.032	29.033	29.035	29.036	29.039	29.041	29.043	29.043	29.043	29.046	29.041	29.041

GMT	13	14	15	16	17	18	19	20	21	22	23	24	Mean
Date													
1	28.84	28.84	28.84	28.83	28.83	28.83	28.83	28.84	28.85	28.86	28.87	28.88	28.851
2	29.08	29.10	29.12	29.14	29.16	29.18	29.19	29.20	29.21	29.21	29.22	29.23	29.075
3	29.36	29.37	29.38	29.39	29.40	29.42	29.43	29.44	29.45	29.45	29.46	29.47	29.357
4	29.42	29.40	29.38	29.36	29.34	29.32	29.30	29.29	29.28	29.27	29.27	29.26	29.396
5	29.09	29.07	29.05	29.03	29.01	28.99	28.98	28.96	28.94	28.93	28.91	28.89	29.084
6	28.67	28.65	28.64	28.62	28.60	*28.59*	28.60	28.61	28.62	28.63	28.64	28.66	*28.711*
7	28.85	28.86	28.87	28.89	28.90	28.91	28.92	28.94	28.95	28.97	28.99	29.01	28.835
8	29.19	29.18	29.17	29.16	29.16	29.16	29.16	29.16	29.16	29.16	29.15	29.14	29.135
9	29.10	29.09	29.09	29.08	29.08	29.07	29.07	29.07	29.06	29.06	29.06	29.06	29.096
10	29.06	29.07	29.07	29.07	29.08	29.08	29.08	29.08	29.08	29.09	29.10	29.12	29.071
11	29.18	29.18	29.19	29.19	29.19	29.19	29.19	29.19	29.20	29.20	29.21	29.21	29.169
12	29.16	29.15	29.14	29.13	29.11	29.09	29.08	29.06	29.04	29.03	29.02	29.00	29.143
13	28.91	28.89	28.87	28.86	28.84	28.83	28.82	28.81	28.80	28.79	28.78	28.78	28.900
14	28.82	28.83	28.83	28.84	28.85	28.86	28.86	28.87	28.88	28.89	28.90	28.91	28.828
15	28.96	28.96	28.97	28.98	28.99	29.00	29.00	29.00	29.01	29.01	29.02	29.02	28.968
16	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.012
17	29.10	29.11	29.12	29.13	29.14	29.15	29.16	29.17	29.18	29.19	29.21	29.22	29.101
18	29.31	29.32	29.32	29.33	29.33	29.34	29.34	29.34	29.34	29.34	29.34	29.34	29.301
19	29.28	29.28	29.28	29.27	29.27	29.27	29.27	29.27	29.27	29.27	29.27	29.28	29.299
20	29.22	29.22	29.22	29.21	29.21	29.21	29.21	29.21	29.21	29.22	29.23	29.24	29.232
21	29.34	29.35	29.35	29.35	29.35	29.35	29.35	29.35	29.34	29.33	29.32	29.31	29.319
22	29.07	29.05	29.03	29.01	28.99	28.97	28.95	28.94	28.93	28.92	28.91	28.90	29.077
23	28.86	28.86	28.86	28.85	28.85	28.85	28.85	28.85	28.86	28.86	28.86	28.86	28.860
24	28.88	28.89	28.89	28.90	28.90	28.91	28.91	28.91	28.91	28.92	28.92	28.92	28.884
25	28.94	28.94	28.94	28.94	28.93	28.92	28.92	28.92	28.91	28.91	28.91	28.90	28.924
26	28.82	28.82	28.82	28.82	28.81	28.80	28.80	28.80	28.80	28.80	28.80	28.80	28.830
27	28.78	28.77	28.77	28.77	28.76	28.76	28.76	28.76	28.76	28.76	28.76	28.76	28.773
28	28.76	28.75	28.75	28.74	28.73	28.72	28.73	28.75	28.77	28.79	28.81	28.82	28.760
29	28.97	28.98	28.99	29.00	29.01	29.02	29.03	29.04	29.05	29.07	29.09	29.11	28.961
30	29.22	29.22	29.23	29.23	29.24	29.24	29.24	29.24	29.25	29.26	29.27	29.28	29.211
Mean	29.041	29.040	29.039	29.037	29.035	29.034	29.034	29.036	29.037	29.040	29.043	29.046	29.039

TABLE 13a.—*Little America III, station pressure, hourly values*—Continued

DECEMBER 1940

GMT	01	02	03	04	05	06	07	08	09	10	11	12
Date												
1	29.28	29.28	29.28	29.27	29.27	29.27	29.27	29.28	29.28	29.28	29.29	29.29
2	29.32	29.32	29.32	29.31	29.31	29.31	29.31	29.31	29.31	29.32	29.32	29.32
3	29.28	29.27	29.27	29.27	29.26	29.26	29.25	29.25	29.25	29.25	29.24	29.23
4	29.13	29.12	29.11	29.10	29.09	29.08	29.07	29.06	29.06	29.05	29.04	29.03
5	29.01	29.01	29.01	29.01	29.01	29.01	29.01	29.00	29.00	29.00	29.00	29.00
6	29.04	29.04	29.04	29.05	29.06	29.07	29.07	29.08	29.09	29.10	29.11	29.12
7	29.25	29.25	29.26	29.26	29.27	29.27	29.27	29.27	29.27	29.27	29.27	29.27
8	29.26	29.26	29.26	29.26	29.26	29.26	29.26	29.26	29.26	29.26	29.26	29.26
9	29.24	29.24	29.23	29.23	29.22	29.22	29.22	29.22	29.22	29.22	29.22	29.22
10	29.23	29.23	29.23	29.23	29.23	29.23	29.23	29.23	29.23	29.23	29.24	29.24
11	29.25	29.26	29.26	29.27	29.27	29.27	29.27	29.28	29.28	29.29	29.29	29.30
12	29.42	29.42	29.43	29.44	29.45	29.46	29.46	29.46	29.47	29.47	29.47	29.48
13	29.49	29.49	29.48	29.48	29.47	29.47	29.46	29.46	29.45	29.45	29.44	29.44
14	29.36	29.36	29.35	29.35	29.35	29.35	29.35	29.35	29.35	29.34	29.34	29.34
15	29.40	29.40	29.40	29.39	29.39	29.39	29.40	29.41	29.41	29.42	29.42	29.43
16	29.42	29.41	29.41	29.40	29.40	29.39	29.39	29.39	29.39	29.39	29.39	29.39
17	29.41	29.41	29.41	29.41	29.41	29.41	29.41	29.41	29.41	29.42	29.43	29.44
18	29.52	29.53	29.54	29.55	29.56	29.57	29.57	29.58	29.58	29.59	29.59	29.60
19	29.63	29.63	29.63	29.63	29.63	29.62	29.62	29.61	29.60	29.60	29.59	29.58
20	29.51	29.51	29.50	29.49	29.48	29.47	29.46	29.46	29.45	29.45	29.45	29.44
21	29.39	29.38	29.37	29.36	29.35	29.34	29.33	29.32	29.31	29.30	29.28	29.27
22	29.30	29.31	29.32	29.34	29.35	29.36	29.38	29.40	29.42	29.43	29.44	29.45
23	29.48	29.47	29.47	29.47	29.46	29.46	29.46	29.47	29.47	29.47	29.48	29.48
24	29.51	29.51	29.52	29.52	29.52	29.53	29.53	29.53	29.54	29.54	29.54	29.55
25	29.64	29.64	29.64	29.64	29.64	29.64	29.64	29.64	29.64	29.64	29.63	29.63
26	29.39	29.36	29.31	29.28	29.24	29.20	29.16	29.11	29.06	29.02	28.98	28.94
27	28.86	28.86	28.87	28.88	28.89	28.90	28.91	28.92	28.92	28.93	28.93	28.94
28	28.93	28.93	28.93	28.94	28.94	28.94	28.95	28.95	28.96	28.97	28.98	28.98
29	28.93	28.92	28.91	28.90	28.88	28.87	28.87	28.86	28.86	28.85	28.85	28.85
30	28.86	28.86	28.86	28.86	28.86	28.86	28.86	28.86	28.87	28.88	28.89	28.90
31	29.01	29.02	29.03	29.03	29.03	29.03	29.04	29.04	29.05	29.05	29.05	29.06
Mean	29.282	29.280	29.279	29.278	29.276	29.275	29.274	29.273	29.273	29.274	29.272	29.273

GMT	13	14	15	16	17	18	19	20	21	22	23	24	Mean
Date													
1	29.29	29.30	29.30	29.30	29.31	29.32	29.32	29.32	29.32	29.32	29.32	29.32	29.295
2	29.31	29.30	29.30	29.30	29.29	29.29	29.29	29.29	29.29	29.28	29.28	29.28	29.304
3	29.22	29.21	29.20	29.20	29.19	29.18	29.18	29.17	29.16	29.16	29.15	29.14	29.218
4	29.03	29.02	29.02	29.02	29.01	29.01	29.01	29.01	29.01	29.01	29.01	29.01	29.046
5	29.00	29.01	29.02	29.03	29.03	29.04	29.04	29.04	29.04	29.04	29.04	29.04	29.018
6	29.13	29.14	29.15	29.16	29.18	29.19	29.20	29.21	29.22	29.23	29.24	29.25	29.132
7	29.27	29.27	29.27	29.27	29.27	29.27	29.27	29.27	29.27	29.26	29.26	29.26	29.266
8	29.26	29.26	29.26	29.26	29.26	29.26	29.26	29.26	29.25	29.25	29.25	29.25	29.258
9	29.22	29.22	29.22	29.22	29.22	29.22	29.22	29.22	29.22	29.22	29.22	29.23	29.223
10	29.24	29.24	29.24	29.23	29.23	29.23	29.23	29.23	29.24	29.24	29.24	29.25	29.234
11	29.30	29.31	29.31	29.32	29.33	29.34	29.35	29.36	29.37	29.39	29.40	29.42	29.312
12	29.49	29.49	22.49	29.49	29.49	29.49	29.50	29.50	29.50	29.50	29.50	29.50	29.474
13	29.44	29.43	29.42	29.41	29.41	29.40	29.39	29.39	29.38	29.37	29.37	29.36	29.431
14	29.34	29.34	29.35	29.35	29.35	29.35	29.36	29.37	29.38	29.38	29.39	29.40	29.356
15	29.43	29.43	29.43	29.44	29.44	29.44	29.44	29.44	29.44	29.43	29.43	29.43	29.450
16	29.39	29.39	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.41	29.41	29.41	29.399
17	29.44	29.45	29.45	29.45	29.46	29.46	29.47	29.47	29.48	29.49	29.50	29.51	29.442
18	29.60	29.61	29.61	29.61	29.61	29.62	29.63	29.63	29.63	29.63	29.63	29.64	29.593
19	29.58	29.57	29.57	29.56	29.56	29.55	29.55	29.55	29.55	29.54	29.53	29.52	29.583
20	29.44	29.43	29.43	29.43	29.42	29.42	29.42	29.42	29.42	29.41	29.41	29.40	29.447
21	29.26	29.25	29.24	29.23	29.23	29.23	29.24	29.25	29.26	29.27	29.28	29.29	29.293
22	29.45	29.46	29.46	29.47	29.47	29.48	29.48	29.48	29.48	29.48	29.48	29.48	29.424
23	29.48	29.48	29.48	29.48	29.49	29.49	29.49	29.50	29.50	29.50	29.51	29.51	29.481
24	29.56	29.57	29.57	29.58	29.59	29.60	29.61	29.62	29.63	29.63	29.63	29.64	29.565
25	29.62	29.61	29.60	29.58	29.57	29.56	29.55	29.54	29.51	29.48	29.46	29.44	29.591
26	28.91	28.88	28.86	28.84	*28.83*	*28.83*	*28.83*	*28.83*	*28.83*	28.84	28.85	28.86	29.010
27	28.94	28.94	28.95	28.95	28.95	28.95	28.95	28.95	28.94	28.94	28.94	28.93	28.922
28	28.99	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	28.99	28.97	28.96	28.971
29	28.85	28.84	28.84	28.84	28.84	28.84	28.84	28.84	28.84	28.85	28.85	28.86	*28.862*
30	28.91	28.92	28.92	28.93	28.94	28.95	28.96	28.97	28.98	28.99	29.00	29.01	28.912
31	29.06	29.06	29.06	29.06	29.07	29.07	29.07	29.07	29.07	29.08	29.08	29.08	29.053
Mean	29.272	29.272	29.272	29.272	29.272	29.274	29.276	29.277	29.278	29.278	29.278	29.280	29.275

TABLE 13a.—*Little America III, station pressure, hourly values*—Continued

JANUARY 1941

GMT	01	02	03	04	05	06	07	08	09	10	11	12
Date												
1	29.08	29.08	29.08	29.07	29.07	29.07	29.07	29.07	29.07	29.07	29.07	29.07
2	29.07	29.06	29.06	29.05	29.05	29.05	29.06	29.06	29.07	29.08	29.08	29.09
3	29.18	29.18	29.19	29.19	29.19	29.19	29.19	29.19	29.20	29.20	29.21	29.21
4	29.21	29.21	29.20	29.19	29.19	29.18	29.17	29.16	29.15	29.14	29.14	29.13
5	29.06	29.06	29.06	29.06	29.06	29.06	29.06	29.06	29.06	29.06	29.07	29.07
6	29.09	29.09	29.09	29.09	29.10	29.10	29.10	29.10	29.10	29.10	29.10	29.10
7	29.09	29.08	29.07	29.06	29.05	29.04	29.04	29.04	29.03	29.02	29.02	29.01
8	28.89	28.88	28.86	28.84	28.83	28.81	28.80	28.78	28.76	28.74	28.73	28.72
9	28.57	28.56	28.55	28.54	28.54	*28.53*	*28.53*	*28.53*	*28.53*	*28.53*	*28.53*	*28.53*
10	28.63	28.64	28.65	28.66	28.67	28.68	28.70	28.71	28.72	28.74	28.75	28.76
11	29.00	29.02	29.03	29.05	29.07	29.09	29.11	29.13	29.15	29.17	29.19	29.20
12	29.39	29.40	29.40	29.41	29.41	29.42	29.42	29.43	29.44	29.45	29.45	29.46
13	29.48	29.47	29.47	29.47	29.47	29.47	29.47	29.47	29.47	29.47	29.47	29.46
14	29.36	29.35	29.33	29.32	29.31	29.30	29.29	29.29	29.27	29.27	29.26	29.24
15	29.02	29.01	29.00	28.99	28.97	28.96	28.95	28.94	28.93	28.91	28.91	28.90
16	28.75	28.75	28.74	28.74	28.73	28.73	28.72	28.71	28.71	28.71	28.71	28.70
17	28.69	28.68	28.68	28.68	28.67	28.67	28.67	28.67	28.67	28.67	28.67	28.68
18	28.69	28.69	28.69	28.69	28.69	28.69	28.70	28.70	28.70	28.70	28.70	28.70
19	28.72	28.72	28.72	28.72	28.72	28.72	28.72	28.72	28.72	28.72	28.72	28.72
20	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.71	28.71	28.71
21	28.79	28.79	28.79	28.80	28.80	28.81	28.81	28.81	28.82	28.83	28.84	28.85
22	28.91	28.91	28.91	28.91	28.91	28.91	28.91	28.91	28.91	28.81	28.91	28.91
23	28.93	28.93	28.93	28.93	28.93	28.92	28.92	28.92	28.92	28.92	28.93	28.93
24	29.04	29.06	29.07	29.07	29.08	29.09	29.10	29.11	29.12	29.13	29.14	29.15
25	29.16	29.15	29.14	29.14	29.13	29.12	29.11	29.09	29.08	29.07	29.06	29.04
26	28.91	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90
27	28.98	28.99	29.00	29.02	29.03	29.05	29.07	29.09	29.10	29.12	29.14	29.16
28	29.36	29.37	29.38	29.38	29.37	29.36	29.35	29.35	29.34	29.34	29.33	29.33
29	29.19	29.18	29.17	29.16	29.16	29.16	29.16	29.16	29.15	29.15	29.15	29.16
30	29.24	29.24	29.24	29.24	29.24	29.25	29.25	29.25	29.25	29.25	29.25	29.25
31	29.20	29.19	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18
Mean	29.012	29.011	29.009	29.008	29.007	29.007	29.007	29.007	29.007	29.008	29.010	29.010

GMT	13	14	15	16	17	18	19	20	21	22	23	24	Mean
Date													
1	29.07	29.07	29.07	29.07	29.07	29.07	29.07	29.07	29.07	29.07	29.07	29.07	29.071
2	29.10	29.11	29.12	29.12	29.13	29.14	29.15	29.16	29.16	29.17	29.18	29.18	29.104
3	29.21	29.21	29.21	29.22	29.22	29.22	29.22	29.22	29.22	29.22	29.22	29.22	29.205
4	29.12	29.11	29.10	29.09	29.08	29.08	29.08	29.07	29.07	29.07	29.07	29.06	29.128
5	29.07	29.08	29.08	29.08	29.08	29.08	29.09	29.09	29.09	29.09	29.09	29.09	29.072
6	29.10	29.10	29.10	29.10	29.10	29.10	29.10	29.10	29.09	29.09	29.09	29.09	29.097
7	29.01	29.01	29.00	28.98	28.97	28.96	28.95	28.94	28.93	28.92	28.91	28.90	29.001
8	28.71	28.70	28.69	28.68	28.66	28.64	28.64	28.63	28.62	28.60	28.59	28.58	28.724
9	*28.53*	*28.53*	*28.53*	*28.53*	28.54	28.55	28.56	28.57	28.58	28.59	28.60	28.62	*28.550*
10	28.78	28.80	28.81	28.82	28.84	28.86	28.88	28.90	28.92	28.94	28.96	28.98	28.783
11	29.22	29.23	29.24	29.25	29.26	29.28	29.30	29.32	29.34	29.36	29.37	29.38	29.198
12	29.47	29.47	29.47	29.47	29.47	29.47	29.47	29.47	29.47	29.48	29.48	29.48	29.448
13	29.45	29.44	29.43	29.41	29.40	29.04	29.39	29.39	29.38	29.38	29.37	29.37	29.435
14	29.23	29.21	29.19	29.18	29.16	29.14	29.12	29.11	29.09	29.07	29.05	29.04	29.216
15	28.89	28.87	28.85	28.83	28.82	28.81	28.80	28.79	28.78	28.78	28.77	28.76	28.885
16	28.70	28.70	28.69	28.69	28.69	28.69	28.69	28.69	28.69	28.69	28.69	28.69	28.708
17	28.68	28.68	28.68	28.68	28.68	28.68	28.68	28.68	28.69	28.69	28.69	28.69	28.679
18	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.70	28.71	28.71	28.72	28.699
19	28.72	28.72	28.72	28.71	28.71	28.71	28.71	28.71	28.71	28.71	28.71	28.70	28.716
20	28.72	28.72	28.72	28.72	28.72	28.73	28.74	28.75	28.76	28.77	28.78	28.79	28.723
21	28.85	28.86	28.86	28.87	28.87	28.87	28.89	28.89	28.89	28.90	28.90	28.91	28.846
22	29.91	28.91	28.91	28.91	28.91	28.92	28.92	28.92	28.92	28.92	28.92	28.92	28.913
23	28.94	28.94	28.94	28.94	28.95	28.96	28.97	28.98	28.99	29.00	29.02	29.03	28.949
24	29.16	29.16	29.16	29.16	29.16	29.16	29.16	29.16	29.16	29.16	29.16	29.16	29.128
25	29.03	29.02	29.00	28.99	28.98	28.97	28.96	28.95	28.94	28.93	28.92	28.92	29.037
26	28.90	28.90	28.90	28.91	28.91	28.92	28.92	28.93	28.94	28.95	28.96	28.97	28.913
27	29.18	29.20	29.22	29.24	29.25	29.27	29.29	29.31	29.32	29.33	29.35	29.36	29.170
28	29.32	29.30	29.29	29.28	29.27	29.26	29.24	29.23	29.22	29.21	29.20	29.19	29.303
29	29.16	29.16	29.17	29.18	29.18	29.19	29.20	29.21	29.21	29.22	29.23	29.24	29.179
30	29.24	29.24	29.24	29.23	29.23	29.22	29.22	29.22	29.22	29.21	29.21	29.20	29.235
31	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.19	29.19	29.19	29.19	29.19	29.183
Mean	29.011	29.011	29.009	29.007	29.006	29.007	29.009	29.011	29.012	29.014	29.015	29.016	29.010

TABLE 13b.—*Little America III, Seismic Station, hourly station pressures*

NOVEMBER 1940

GMT	01	02	03	04	05	06	07	08	09	10	11	12
Date												
20	27.96	27.96	27.95	27.95	27.94	27.94	27.94	27.94	27.94	27.94	27.93	27.92
21	27.92	27.92	27.93	27.93	27.94	27.94	27.94	27.95	27.96	27.97	27.98	27.99
22	27.97	27.96	27.94	27.93	27.91	27.89	27.88	27.86	27.84	27.82	27.80	27.78
23	27.54	27.53	27.52	27.51	27.50	27.50	27.49	27.49	27.48	27.48	27.48	27.48
24	27.50	27.50	27.51	27.51	27.52	27.53	27.53	27.54	27.54	27.55	27.55	27.55
25	27.59	27.58	27.58	27.57	27.58	27.59	27.60	27.61	27.61	27.61	27.61	27.61
26	27.57	27.56	27.55	27.55	27.54	27.53	27.53	27.53	27.53	27.53	27.53	27.53
27	27.52	27.52	27.51	27.51	27.51	27.51	27.50	27.50	27.50	27.50	27.50	27.50
28	27.51	27.51	27.51	27.51	27.52	27.52	27.53	27.53	27.53	27.53	27.54	27.54
29	27.61	27.63	27.64	27.65	27.66	27.67	27.67	27.67	27.67	27.68	27.68	27.68
30	27.76	27.76	27.76	27.77	27.79	27.81	27.82	27.83	27.85	27.86	27.88	27.89
Mean	27.677	27.675	27.673	27.672	27.673	27.675	27.675	27.677	27.677	27.679	27.680	27.679

GMT	13	14	15	16	17	18	19	20	21	22	23	24	Mean
Date													
20	27.92	27.92	27.91	27.90	27.90	27.90	27.90	27.90	27.90	27.90	27.91	27.92	27.925
21	28.00	28.01	28.02	28.03	28.03	28.02	28.02	28.01	28.00	28.00	27.99	27.99	27.979
22	27.76	27.74	27.73	27.71	27.69	27.67	27.65	27.63	27.61	27.59	27.57	27.56	27.770
23	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.49	27.49	27.50	27.50	27.50	27.493
24	27.55	27.55	27.56	27.56	27.57	27.57	27.58	27.58	27.59	27.59	27.60	27.60	27.551
25	27.60	27.60	27.60	27.58	27.58	27.58	27.58	27.58	27.58	27.58	27.58	27.58	27.590
26	27.53	27.53	27.53	27.53	27.53	27.53	27.53	27.53	27.53	27.53	27.53	27.53	27.535
27	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.50	27.51	27.51	27.504
28	27.54	27.54	27.54	27.54	27.54	27.55	27.55	27.56	27.57	27.58	27.59	27.60	27.541
29	27.69	27.70	27.71	27.71	27.71	27.72	27.72	27.73	27.73	27.74	27.75	27.76	27.691
30	27.90	27.90	27.91	27.92	27.93	27.94	27.94	27.94	27.94	27.95	27.95	27.95	27.873
Mean	27.679	27.679	27.681	27.678	27.678	27.678	27.677	27.677	27.676	27.678	27.678	27.682	27.677

DECEMBER 1940

GMT	01	02	03	04	05	06	07	08	09	10	11	12
Date												
1	27.95	27.95	27.95	27.95	27.95	27.95	27.95	27.95	27.95	27.95	27.95	27.95
2	27.92	27.93	27.94	27.95	27.96	27.97	27.98	27.98	27.98	27.98	27.98	27.98
3	27.94	27.94	27.94	27.94	27.94	27.94	27.94	27.94	27.94	27.93	27.92	27.92
4	27.87	27.86	27.86	27.85	27.84	27.84	27.84	27.85	27.85	27.85	27.85	27.86
5	27.72	27.72	27.73	27.73	27.73	27.74	27.74	27.74	27.75	27.75	27.75	27.76
6	27.78	27.78	27.78	27.79	27.79	27.79	27.80	27.82	27.84	27.86	27.88	27.90
7	28.00	28.00	28.00	28.00	28.00	28.00	27.99	27.99	27.99	27.98	27.98	27.97
8	27.91	27.90	27.90	27.89	27.89	27.88	27.88	27.88	27.88	27.88	27.88	27.88
9	27.89	27.90	27.90	27.90	27.90	27.90	27.89	27.88	27.88	27.87	27.87	27.86
10	27.86	27.86	27.86	27.86	27.86	27.86	27.86	27.86	27.86	27.87	27.87	27.87
11	27.94	27.95	27.95	27.95	27.96	27.97	27.98	27.99	28.00	28.00	28.01	28.02
12	28.11	28.11	28.11	28.12	28.13	28.14	28.14	28.14	28.14	28.14	28.14	28.14
13	28.13	28.13	28.13	28.12	28.12	28.12	28.11	28.11	28.11	28.10	28.10	28.10
14	28.02	28.01	28.01	28.01	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00
15	28.05	28.05	28.05	28.05	28.05	28.05	28.05	28.05	28.05	28.05	28.05	28.05
16	28.05	28.05	28.05	28.05	28.05	28.04	28.04	28.04	28.04	28.03	28.03	28.03
17	28.03	28.03	28.03	28.03	28.03	28.03	28.04	28.04	28.04	28.04	28.05	28.05
18	28.17	28.18	28.18	28.19	28.20	28.21	28.21	28.21	28.21	28.22	28.22	28.22
19	28.26	28.26	28.26	28.26	28.26	28.26	28.26	28.25	28.25	28.25	28.25	28.24
20	28.21	28.20	28.19	28.18	28.17	28.17	28.17	28.17	28.17	28.16	28.16	28.16
21	28.14	28.13	28.12	28.10	28.08	28.06	28.04	28.02	28.00	27.99	27.97	27.96
22	28.10	28.11	28.12	28.12	28.13	28.14	28.14	28.14	28.13	28.13	28.13	28.13
23	28.12	28.11	28.11	28.11	28.10	28.10	28.10	28.10	28.10	28.11	28.11	28.11
24	28.22	28.23	28.23	28.23	28.24	28.24	28.25	28.26	28.27	28.28	28.29	28.30
25	28.39	28.38	28.37	28.36	28.35	28.34	28.33	28.32	28.31	28.30	28.29	28.28
26	28.14	28.10	28.04	28.02	27.98	27.94	27.89	27.84	27.78	27.71	27.62	27.51
27	27.66	27.66	27.66	27.66	27.66	27.66	27.67	27.68	27.69	27.70	27.70	27.70
28	27.73	27.73	27.73	27.73	27.74	27.74	27.74	27.75	27.75	27.76	27.77	27.78
29*	27.58	27.58	27.59	27.58	27.57	27.56	27.55	27.54	27.54			
Mean	28.011	28.013	28.005	28.005	28.004	28.003	28.001	28.000	27.998	27.996	27.994	27.990

See footnote on next page.

TABLE 13b.—*Little America III, Seismic Station, hourly station pressures*—Continued

DECEMBER 1940—Continued

GMT	13	14	15	16	17	18	19	20	21	22	23	24	Mean
Date													
1	27.94	27.94	27.94	27.94	27.94	27.94	27.93	27.93	27.92	27.92	27.91	27.91	27.940
2	27.98	27.98	27.98	27.98	27.98	27.98	27.97	27.96	27.96	27.95	27.95	27.94	27.965
3	27.92	27.92	27.92	27.92	27.91	27.91	27.90	27.90	27.88	27.87	27.87	27.87	27.918
4	27.85	27.84	27.83	27.82	27.81	27.80	27.79	27.78	27.77	27.76	27.74	27.72	27.822
5	27.76	27.76	27.76	27.76	27.76	27.76	27.76	27.76	27.76	27.76	27.77	27.78	27.750
6	27.91	27.92	27.93	27.94	27.95	27.96	27.97	27.98	27.99	28.00	28.00	28.00	27.890
7	27.97	27.96	27.96	27.95	27.95	27.94	27.94	27.93	27.93	27.92	27.92	27.91	27.966
8	27.88	27.88	27.88	27.88	27.88	27.88	27.89	27.89	27.89	27.89	27.89	27.89	27.886
9	27.86	27.86	27.86	27.86	27.86	27.86	27.86	27.86	27.86	27.86	27.86	27.86	27.873
10	27.88	27.88	27.88	27.89	27.89	27.89	27.90	27.90	27.90	27.91	27.92	27.93	27.890
11	28.02	28.02	28.02	28.02	28.03	28.05	28.06	28.07	28.08	28.09	28.10	28.10	28.016
12	28.14	28.14	28.14	28.14	28.14	28.14	28.14	28.14	28.14	28.14	28.14	28.14	28.135
13	28.09	28.08	28.07	28.06	28.05	28.04	28.04	28.04	28.04	28.03	28.02	28.02	28.082
14	28.00	28.00	28.00	28.00	28.00	28.00	28.01	28.01	28.02	28.03	28.04	28.04	28.006
15	28.05	28.05	28.05	28.05	28.05	28.05	28.05	28.05	28.05	28.05	28.05	28.05	28.050
16	28.03	28.03	28.03	28.03	28.03	28.03	28.03	28.03	28.03	28.03	28.03	28.03	28.036
17	28.06	28.07	28.08	28.09	28.10	28.11	28.12	28.13	28.14	28.15	28.16	28.17	28.076
18	28.22	28.23	28.23	28.24	28.24	28.24	28.25	28.25	28.26	28.26	28.26	28.26	28.223
19	28.24	28.24	28.24	28.23	28.23	28.23	28.23	28.23	28.23	28.23	28.22	28.22	28.243
20	28.16	28.16	28.15	28.15	28.15	28.14	28.15	28.15	28.16	28.17	28.16	28.16	28.167
21	27.95	27.96	27.98	28.00	28.02	28.03	28.04	28.05	28.06	28.07	28.08	28.09	28.040
22	28.13	28.13	28.13	28.13	28.13	28.13	28.13	28.13	28.12	28.12	28.12	28.12	28.127
23	28.11	28.12	28.12	28.13	28.14	28.15	28.17	28.18	28.19	28.20	28.21	28.22	28.134
24	28.30	28.31	28.32	28.33	28.34	28.35	28.36	28.37	28.38	28.39	28.39	28.40	28.303
25	28.27	28.26	28.25	28.24	28.22	28.21	28.20	28.19	28.18	28.17	28.16	28.15	28.272
26	27.59	27.56	27.54	27.53	27.61	27.63	27.63	27.63	27.64	27.64	27.65	27.66	27.745
27	27.70	27.70	27.71	27.71	27.71	27.70	27.70	27.71	27.73	27.73	27.73	27.73	*27.694
28	27.77	27.76	27.76	27.76	27.75	27.74	27.72	27.72	27.72	27.69	27.63	27.60	27.732
29*													*27.566
Mean	27.992	27.992	27.991	27.992	27.995	27.996	27.998	27.999	28.001	28.001	27.999	27.999	27.999

*Readings for 29th not used in monthly means.
Absolute minimum for month *27.60* in. at 1210 on 26th.

Mean station pressure, 39 days: 27.908 in.

PRESSURE SUMMARIES AND COMPARISONS

DAILY AND 10-DAY MEANS, RANGES, EXTREMES

TABLE 14.—*Little America III, station pressures, mean daily values*

[Corrected for temperature and gravity]

1940	February	March	April	May	June	July	August	September	October	November	December	January
Date												
1	29.405	29.485	28.966	28.480	28.964	28.795	28.735	28.962	28.892	28.851	29.295	29.071
2	29.452	29.473	29.328	28.585	29.232	29.084	28.794	28.825	**29.209**	29.075	29.304	29.104
3	29.650	29.467	29.458	28.963	29.098	28.896	28.768	28.599	28.844	29.357	29.218	29.205
4	29.580	29.541	29.245	28.950	29.046	28.791	28.444	28.570	*28.014*	**29.396**	29.046	29.128
5	29.436	29.683	29.363	28.852	29.098	28.878	28.297	28.469	28.450	29.084	29.018	29.072
6	29.311	**29.769**	29.362	28.870	29.275	28.798	28.323	28.544	29.070	*28.711*	29.132	29.097
7	29.322	29.747	29.218	28.762	29.408	28.788	28.550	28.551	29.180	28.835	29.266	29.001
8	29.370	29.555	29.516	28.624	28.961	28.885	28.858	28.727	28.690	29.135	29.258	28.724
9	29.362	29.372	**29.550**	28.720	28.651	28.904	28.654	28.765	28.613	29.096	29.223	*28.550*
10	29.331	29.430	29.286	28.925	29.099	29.530	28.472	28.775	28.815	29.071	29.234	28.783
11	29.322	29.225	29.026	29.172	29.333	29.280	28.489	**29.052**	28.714	29.169	29.312	29.198
12	29.434	28.790	28.762	29.207	28.958	29.102	28.672	29.017	28.370	29.143	29.474	**29.448**
13	29.461	28.805	28.879	29.517	29.166	29.192	28.573	28.843	28.663	28.900	29.431	29.435
14	29.528	29.117	29.010	29.513	28.752	29.136	28.447	28.788	28.641	28.828	29.356	29.216
15	29.623	29.120	29.199	29.667	28.849	28.728	28.450	28.638	28.612	28.968	29.450	28.885
16	29.320	*28.779*	28.911	**29.709**	28.965	28.679	28.599	28.759	28.225	29.012	29.399	28.708
17	*29.091*	28.975	28.772	29.340	29.152	*28.454*	28.678	28.702	28.252	29.101	29.442	28.679
18	29.113	29.154	28.779	28.796	29.228	28.497	28.335	28.821	28.142	29.301	**29.593**	28.699
19	29.558	28.839	28.739	*28.479*	29.180	28.548	*27.889*	28.881	28.240	29.299	29.583	28.716
20	29.602	28.860	28.830	28.848	29.000	28.786	28.737	28.696	28.492	29.232	29.447	28.723
21	29.424	29.007	29.054	28.808	28.772	28.785	28.671	**28.435**	28.511	29.319	29.293	28.846
22	29.538	29.132	29.097	28.844	28.472	29.260	28.767	28.683	28.683	29.077	29.424	28.913
23	29.642	**28.911**	29.105	29.122	*28.447*	29.375	**28.888**	28.347	28.832	28.860	29.481	28.949
24	29.597	29.307	29.044	29.350	28.618	**29.612**	28.642	*27.670*	28.833	28.884	29.565	29.128
25	**29.673**	29.339	*28.680*	29.454	28.665	29.375	28.392	28.222	28.738	28.924	29.591	29.037
26	29.340	29.121	**28.659**	29.035	28.722	28.818	28.438	28.804	28.653	28.830	29.010	28.913
27	29.304	29.298	29.006	28.546	29.108	28.750	28.613	28.842	28.467	28.773	28.922	29.170
28	29.525	29.448	29.086	28.889	28.912	28.708	28.777	28.617	28.385	28.760	28.971	29.303
29	29.468	29.438	29.023	29.082	28.892	28.835	28.817	28.491	28.579	28.961	*28.862*	29.179
30		29.329	28.627	29.121	28.770	28.982	28.728	28.525	28.667	29.211	28.912	29.235
31		28.985		28.832		28.609	28.751		28.672		29.053	29.183
Mean	29.441	29.243	29.050	29.002	28.963	28.931	28.588	**28.654**	28.619	29.039	29.275	29.010

Mean pressure for 12 months: **28.984 inches.**

TABLE 15.—*Mean atmospheric pressure by 10-day periods at Little America and outposts*

	Sea level pressures		Station pressures			Sea level pressures		Station pressures	
	L. A. 1929	L. A. 1934	L. A. 1940	Outposts		L. A. 1929	L. A. 1934	L. A. 1940	Outposts
Jan. I	29.608				Aug. I	29.287	28.748	28.589	28.410
II	29.405				II	29.020	28.644	28.488	28.271
III	29.259				III	28.982	28.716	28.679	28.435
Feb. I	29.148		29.422		Sept. I	29.352	28.624	28.679	28.337
II	29.138		29.405		II	28.854	28.862	28.820	28.530
III	29.332	29.271	29.502		III	28.696	29.000	28.464	28.620
Mar. I	29.318	29.112	29.552	1934	Oct. I	*28.668*	28.644	28.778	28.387
II	29.222	29.231	28.966	E. B. B.	II	29.041	28.576	*28.456*	
III	29.043	29.307	29.210	29.048	III	28.928	28.732	28.638	
Apr. I	29.214	28.944	29.329	28.669	Nov. I	29.083	28.821	29.061	1940
II	29.448	29.059	28.891	28.806	II	29.440	*28.552*	29.096	S. S.
III	29.148	28.940	28.931	28.702	III	29.649	28.853	28.960	27.677
May I	29.056	29.155	28.773	28.862	Dec. I	29.535	29.130	29.200	27.889
II	28.848	28.951	29.225	28.638	II	29.766	29.284	29.446	28.104
III	28.827	29.096	29.008	28.823	III	29.518	28.956	29.190	28.006
June I	29.081	29.029	29.084	28.682		1930	1935	1941	
II	29.224	28.766	29.067	28.475	Jan. I	29.210	29.564	28.974	
III	29.620	29.055	28.738	28.721	II	29.335	29.461	28.971	
July I	29.060	29.161	28.935	28.842	III	29.218	29.441	29.078	
II	28.898	28.869	28.840	28.505	Feb. I	29.146			S. S.
III	28.945	29.179	29.010	28.922	Means	29.175	29.000	28.984	27.908

I—1st to 10th of month.
II—11th to 20th of month.
III—21st to end of month.
(inches, corrected for gravity)
E. B. B.: Eleanor Bolling Advance Base, 100 miles south, 1934.
S. S.: Rockefeller Mtn. Seismic Station, 100 miles east, 1940.

NOTES

January 1929: on board "City of New York" in Bay of Whales.
February 1930: I for February 1 to 4 only.
E. B. Base, March: III for March 28 to March 31 only.
E. B. Base, October: I for October 1 to October 7 only.
S. S., November: III for November 20 to November 30.
S. S., December: III for December 21 to December 28 only.
Times and dates of 1929–30 and 1934–5 data are for 180° W. for 1940–1 data are Greenwich Meridian Time, and thus 12 hours ahead of previous values.

TABLE 16.—*Little America III, amplitude and extremes of range of atmospheric pressure*

[Inches, corrected to 320° F. and standard gravity; G. M. T.]

1940	February	March	April	May	June	July	August	September	October	November	December	January 1941	Year
ABSOLUTE VALUES													
Station Pressure													
Absolute Maximum	29.71	29.78	29.58	29.73	29.44	29.68	29.12	29.07	29.30	29.48	29.64	29.48	29.78
Date	25	6	8–9	15–16	7	24	22–23	12	7	4	18, 25	12–13	Mar. 6
Absolute Minimum	29.00	28.69	28.44	28.35	28.37	28.43	27.78	27.43	27.82	28.59	28.83	28.53	27.43
Date	18	12–13	25–26	19	22	17	19	24	4	6	26	9	Sep. 24
Range	*0.71*	1.09	1.14	1.38	1.07	1.25	1.34	1.64	1.48	0.89	0.81	0.95	2.35
Sea Level Pressure													
Absolute Maximum, In	29.822	29.893	29.710	29.867	29.577	29.805	29.255	29.196	29.415	29.551	29.751	29.586	29.893
Mb	1009.9	1012.3	1006.1	1011.4	1001.6	1009.3	990.7	988.7	996.1	1000.7	1007.5	1001.9	1012.3
Absolute Minimum, In	29.111	29.798	28.558	28.458	28.476	28.558	27.888	27.537	27.932	28.703	28.931	28.635	27.537
Mb	985.8	975.2	967.1	963.7	964.3	967.1	944.4	932.5	945.9	972.0	979.7	969.7	932.5
MEAN DAILY VALUES													
Station Pressure													
Highest Mean Daily	29.673	29.769	29.550	29.709	29.408	29.612	28.888	29.052	29.209	29.396	29.593	29.448	29.769
Date	25	6	9	16	7	24	23	11	2	4	18	12	Mar. 6
Lowest Mean Daily	29.091	28.779	28.620	28.479	28.447	28.454	27.899	27.670	28.014	28.711	28.862	28.550	27.670
Date	17	16	25	19	23	17	19	24	4	6	29	9	Sep. 24
Range	*0.582*	0.990	0.930	1.230	0.961	1.158	0.989	1.382	1.195	0.685	0.731	0.898	2.099

TABLE 17.—*Absolute pressure extremes, by years, in the Ross sea area and resulting ranges*

[Corrected to sea level, 32° F., and standard gravity. Inches and millimeters of mercury, and millibars]

Source	Station	Year	Absolute maximum			Absolute minimum			Absolute range		
			Inch	Mm.	Mb.	Inch	Mm.	Mb.	Inch	Mm.	Mb.
(1)	Little America III	1940	29.89	759.2	1012.3	27.54	699.5	932.5	2.35	59.7	79.8
(2)	Little America	1934	29.99	761.8	1015.6	27.68	703.1	937.4	2.31	58.7	78.2
(2)	Little America	1929	30.07	763.8	1018.3	27.86	707.6	943.4	2.21	56.2	74.9
(3)	Framheim	1911	30.19	766.8	1022.3	28.07	712.9	950.5	2.12	53.9	71.8
	Bay of Whales	4 yr.	30.19	766.8	1022.3	27.54	699.5	932.5	2.65	67.3	89.8
(4)	Cape Evans	1912	30.02	762.5	1016.6	27.82	706.6	942.1	2.20	55.9	74.5
(4)	Cape Evans	1911	30.15	765.8	1020.9	28.20	716.3	955.0	1.95	49.5	65.9
	Cape Royds	1908									
(4)	Hut Point	1903	30.13	765.3	1020.3	28.37	720.6	960.7	1.76	44.7	59.6
(4)	Hut Point	1902	30.25	768.4	1024.4	28.21	716.5	955.2	2.04	51.9	69.2
(3)	McMurdo Sound	5 yr.	30.25	768.4	1024.4	27.82	706.6	942.1	2.43	61.8	82.3
(3)	Cape Denison	1912	30.43	772.9	1030.5	27.77	705.4	940.4	2.66	67.5	90.1
(4)	Cape Adare	1911	30.08	764.0	1018.6	28.07	713.0	950.6	2.01	51.0	68.0
(3)	Cape Adare	1899	30.26	768.7	1024.8	28.00	711.1	948.0	2.26	57.6	76.8

(1) Original data.
(2) G. Grimminger: Meteorological Results of the Byrd Antarctic Expeditions, II, MONTHLY WEATHER REVIEW, Supp. 42, p. 76.
(3) W. Meinardus: Klimakunde der Antarktis. *Handbuch der Klimatologie IV*, U. 114.
(4) G. Simpson: British Antarctic Expedition 1910–13: Meteorology, III, p. 229.

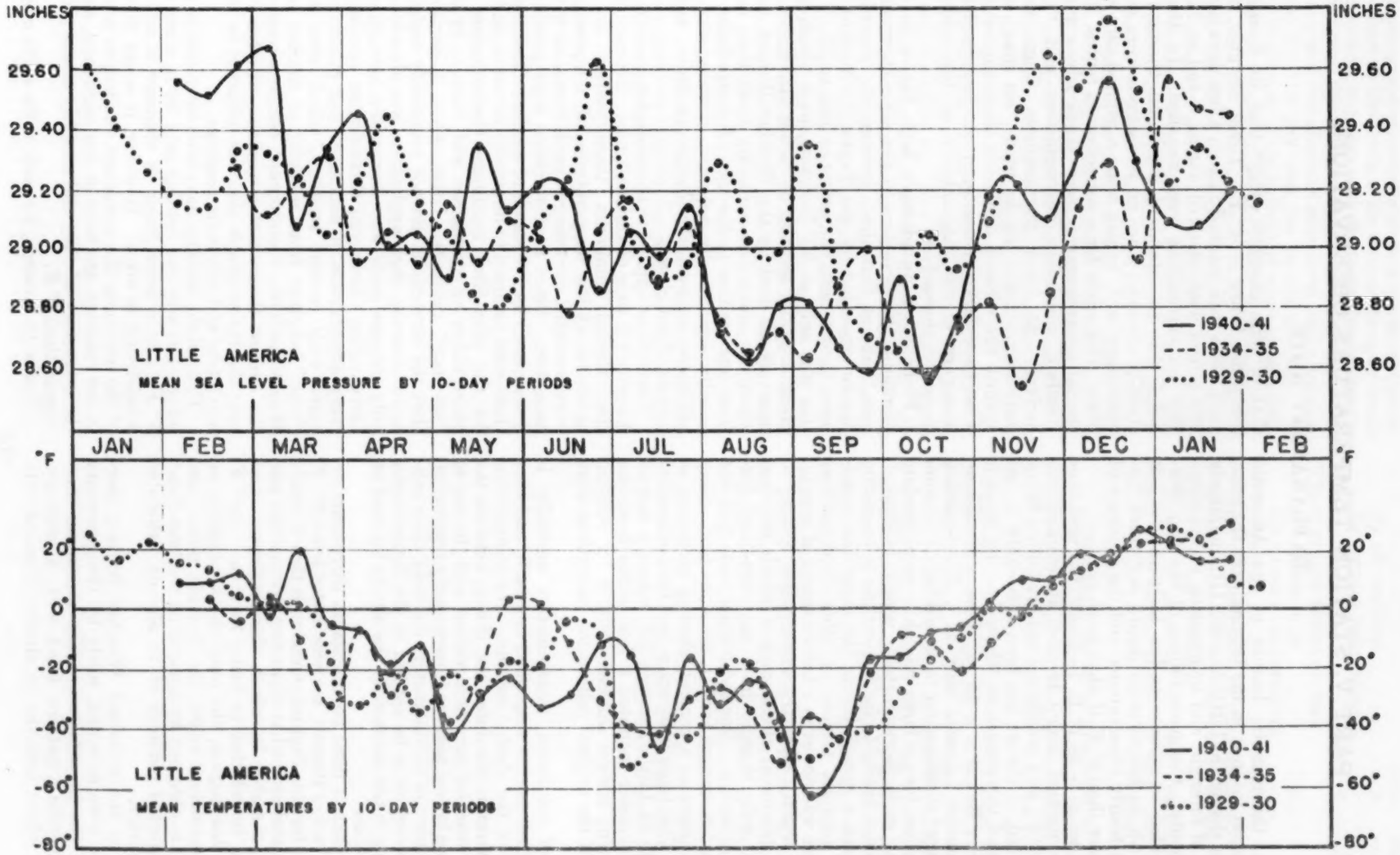

FIGURE 8.—Mean sea level pressure and surface temperature by 10-day periods.

PART V. STATION TEMPERATURE OBSERVATIONS

EXPLANATORY NOTE

Temperature, the climatic feature of the Antarctic which is of greatest interest to the layman, was the most poorly measured element at Little America III, due largely to a total lack of foresight and imagination in the selection of instruments. Complete failure of the two thermographs provided to operate at low temperatures left four months with no temperature record save that furnished by the 6-hourly observations, and the accuracy of these is no greater than 2° F, if that good.

Mercury freezes at −38.1° F. (−38.89° C.) and thus mercurial thermometers cannot be used at temperatures lower than −35° F., and usually are not graduated below −30° F. Instead, it always has been customary to use "spirit" or alcohol thermometers, whose freezing point is below −100° F. But it is a far cry from a small-bore alcohol thermometer intended only as a direct-reading "current" or "dry" thermometer to an ordinary minimum thermometer, whose bore is large enough to accommodate the index. Yet such thermometers, poorly calibrated, were the only ones available for wintertime temperature readings. Efforts, a month before the expedition's sailing, to obtain accurate toluene or other thermometers failed, since there was not even a known source of supply.

An attempt, shortly after the expedition's return, to recalibrate the minimum thermometers which survived the trip showed wide changes from the corrections furnished two years earlier. Nor did further tests give the same corrections; successive runs in the same bath, using electric thermometers as a control, showed variations as high as 2° F. This large inaccuracy had been suspected from tests made at Little America III, where a second minimum thermometer mounted a few inches from the regular instrument always differed from it by varying amounts, even if the original calibration corrections were used.

Calibration of minimum thermometers normally is made with the instruments suspended in a bath, and thus is a calibration of the alcohol column. No comparisons are made to determine the difference, if any, between the index, which is read for minimum values, and the top of the column whose lowest position it supposedly represents. Thus even if minimum thermometers did hold their calibrations, the correction to be applied to the thermometer for direct reading is not necessarily the one to be used on the minimum values.

This is more than is done for maximum thermometers, which, in the Weather Bureau, are *never tested below 32° F.* The only excuse for this flagrant omission is that it would be inconvenient and somewhat expensive to construct and operate a cold chamber in which the maximum thermometers could be whirled to bring them to −30° F. As a result of this neglect, the only check available on maximum thermometers below the freezing point (and above −35° F.) is obtained by comparing the "set max" values with corrected readings of an already calibrated current thermometer.

In addition to the standard Weather Bureau thermometers, there were provided, solely by the generosity and interest of the manufacturer, four maximum thermometers of standard pattern filled with a mercury-thallium alloy, whose behavior is almost identical with that of pure mercury except that its freezing point is somewhat below −60° F. These, however, were sent in such haste (two reached Boston a few days before sailing, two others were received during a call at Philadelphia) that no corrections were supplied. In the erroneous belief that the standard maximum thermometers were strictly accurate, since no corrections were noted on the customary card, (which bears a printed zero and decimal point, with space for a correction in tenths, if any) these special thermometers were studiously compared with standard maximum thermometers and "corrections" derived. At lower temperatures, where the mercury instruments could not be used, "set max" comparisons against the alcohol minimum thermometer were made. That these lacked consistency was later explained by the discovery of the unreliability of the minimum thermometers themselves.

Probably it would have been better to correct the minimum thermometers to the alloy thermometers' "set max," except that these instruments, according to calibration provided by the Taylor Instrument Companies upon their return, had errors as high as 2°. This calibration was only at 30° intervals, over which linear interpolation would seem to be rather inaccurate. Even 10° intervals, as used by the Weather Bureau, are too large where the correction varies by more than a few tenths from one reading to the next; for expedition work, supposedly scientifically accurate, thermometers should be calibrated at least three separate times, and at 5° intervals, if not closer.

Corrections applied to thermometer readings from Little America III were of various kinds. Before it was realized that alcohol minimum thermometers are inherently unreliable at low temperatures, all temperature readings were corrected according to cards furnished with the thermometers. Since no corrections were provided (or even determined) for the standard mercury-filled thermometers, these were assumed to be strictly accurate, and corrections for the alloy-filled maximum thermometers were computed either by comparison with them or by check of the "set max" readings. Later, when it became apparent that the corrections did not necessarily make the values more accurate, their application was abandoned, and the only changes made were corrections according to card of current (dry) mercurial thermometer readings and arbitrary adjustments of maximum and minimum values to agree with current readings, which were accepted as "true," whether from mercury or alcohol instruments. Where available, thermograph readings were adjusted to the current thermometer readings, whether corrected or not; the thermograph also was adjusted to the accepted maximum and minimum readings.

Thus all the readings have been converted to a consistent whole, but any one reading may be in error as much as 5° F., and a large group of readings is not necessarily consistently in error. However, it seems that the errors of the minimum thermometers, the largest source of error in the readings, are more or less accidental, and therefore the inaccuracy of daily and monthly means probably is no greater than 2° F.

TABLE 18 presents, for each of the eight months during

which the thermograph operated with reasonable continuity, bi-hourly values of the surface air temperature, in whole degrees Fahrenheit, together with the mean daily temperature; the change of this mean temperature from that of the previous day; and the absolute maximum and minimum temperatures for the day and the resulting range. In view of the inaccuracy of the individual readings available for correcting the thermograph, the rather erratic behavior of the clocks, and the occasional gaps in the record due to clock stoppage, blocking of the pen by snow which sifted through the case, and other factors, extraction of hourly values was deemed inadvisable. Except during May, gaps were filled in by constructing an arbitrary temperature record based on the available observations of current, maximum, and minimum temperatures. For these eight months, the mean daily temperature was obtained by averaging all the 2-hourly values, giving half weight each to the "midnight" values at the start and end of the day. For the days in May on which no record was obtained, the means were determined in the same way as for June, July, and August.

Table 19 presents, for the four months with fragmentary or no thermograph record, only the last five columns of data as offered in Table 18. For the first three months, the mean daily temperature is the average of all the readings of the day: four maxima, four minima, and five current readings, the two "midnight" current readings again receiving half weight. For September, where many maximum readings are missing, the means were obtained by averaging only the five current readings of each day, again giving half weight to the two "midnight" values. Before these expedients were adopted, means on these three bases, as well as others, were computed for the months of April, October, and November, and the available days of May. Considering the means from the bi-hourly values as correct, the algebraic sums of the individual departures from these means of the figures obtained by the other methods was:

	April	*October*	*November*
By all readings	2.9	−15.8	−9.5
By current temperatures only	3.6	−26.4	−63.6
The standard deviation was:			
By all readings	1.82	0.90	0.90
By current temperatures only	1.57	1.91	3.20

Thus the difference in the means as determined by the various methods is approximately within the limit of error of the original readings.

TABLE 20 presents, for ready reference, the accepted mean daily temperatures for each day of the year, the same values as given in the individual monthly tabulations.

TABLE 21a presents comparisons of the mean daily, mean daily maximum, mean daily minimum, and mean daily range values with those previously obtained for the same location, and combines them all into new means for the station. Also included is a tabulation of the mean temperature at 6-hourly observations, the values being the averages of the readings, to tenths of degree, which are rounded to whole degrees in Table 1.

TABLE 21b presents, without combination into means, a comparison of temperature extremes reported by three expeditions to the Bay of Whales. Included are the highest and lowest mean daily temperatures and resulting ranges for the individual months, and the absolute highest and lowest temperatures and resulting range for the various months.

TABLE 22 presents, for the three years of observations the mean temperatures by 10-day periods, and over-all means for the periods. Inasmuch as the published values of the mean annual temperature for 1929 and 1934 do not agree with the published values of either monthly temperatures or the 10-day means, computed from the daily means, two sets of yearly means are shown.

For 10-day mean surface temperature graph, see Figure 8.

SURFACE AIR TEMPERATURES

TABLE 18.—*Little America III, bihourly surface air temperatures and extremes, with weighted daily means and daily ranges*

FEBRUARY 1940

GMT	02	04	06	08	10	12	14	16	18	20	22	24	Mean	Change	Max.	Min.	Range
Date																	
1	17	16	14	11	7	17	20	16	15	17	19	15	15.4	3.8	22.	4	18
2	14	11	9	10	11	10	8	8	10	14	16	17	11.4	−4.0	18	7	11
3	16	23	12	9	5	7	12	17	23	23	24	21	15.8	4.4	25	4	21
4	16	12	9	8	7	8	8	6	7	8	11	15	9.8	−6.0	22	5	17
5	13	11	9	5	4	−2	3	6	9	9	7	8	7.1	−2.7	15	−5	20
6	8	8	8	6	6	6	5	4	6	7	9	10	6.8	−0.3	10	3	7
7	9	8	7	4	0	−1	−1	−1	0	3	6	10	3.7	−3.1	10	−4	14
8	12	13	9	6	5	5	7	10	12	13	15	15	10.0	6.3	15	1	14
9	12	11	10	5	0	−2	−2	−2	−2	0	4	6	3.7	−6.3	16	−4	20
10	9	10	11	8	8	10	10	10	10	11	12	12	9.8	6.1	12	6	6
11	5	5	5	4	4	4	4	5	6	11	13	14	6.6	−3.2	14	3	11
12	15	15	15	13	12	12	11	11	9	10	12	14	12.4	5.8	15	9	6
13	13	11	9	3	0	−1	−5	−4	2	3	8	10	4.2	−8.2	16	−5	21
14	10	7	4	1	3	4	4	7	7	11	12	19	7.0	2.8	20	1	19
15	20	20	19	17	16	13	12	14	18	19	23	24	17.7	10.7	24.3	12	12.3
16	22	21	21	16	15	8	5	1	3	7	7	9	11.9	−5.8	24.3	1	23.3
17	13	12	10	4	4	5	1	1	3	2	5	5	5.6	−6.3	13	−1	14
18	5	3	−2	−6	−10	−9	−13	−12	−9	−7	−2	7	−4.7	−10.3	8	−15	23
19	5	5	4	1	0	−5	5	8	9	14	15	18	6.1	10.8	18	−7	25
20	18	17	14	11	12	13	11	13	15	17	15	17	14.5	8.4	19	10	9
21	17	17	13	13	12	9	4	0	3	6	9	11	9.8	−4.7	17	−2	19
22	10	9	9	8	9	12	15	14	16	24	27	23	14.2	4.4	29	6	23
23	24	23	23	23	23	23	22	22	23	24	24	24	23.1	8.9	25	21	4
24	23	20	19	19	17	14	16	13	11	8	6	6	15.1	−8.0	25	5	20
25	7	9	11	21	23	23	21	21	22	22	20	23	17.9	2.8	23	6	17
26	23	23	22	21	20	20	19	18	18	18	11	10	19.1	1.2	23	9	14
27	11	10	10	5	−1	1	6	8	11	12	12	14	8.1	−11.0	13.9	−2.8	16.7
28	14	6	0	−9	1	2	1	0	0	3	8	11	3.2	−4.9	14.9	−10.7	25.6
29	4	5	7	9	10	10	9	11	13	10	5	2	8.3	5.1	13.8	0.7	13.1
Mean	13.3	12.4	10.7	8.5	7.7	7.4	7.5	7.8	9.3	11.0	12.2	13.4	10.1	5.7	18.0	2.0	16.0

MARCH 1940

GMT	02	04	06	08	10	12	14	16	18	20	22	24	Mean	Change	Max.	Min.	Range
Date																	
1	0	−5	−5	−14	−18	−11	−13	−10	−5	−4	−3	0	−7.2	−15.5	6.7	−20.0	26.7
2	3	3	2	0	−2	−2	−1	−2	−2	0	1	−1	0.0	7.2	4.3	−5.2	9.5
3	0	0	0	0	1	1	0	1	−7	−7	−2	0	−1.0	−1.0	2.6	−9.6	12.2
4	3	5	5	2	3	0	2	3	4	4	6	8	3.4	4.4	9.1	−0.6	9.7
5	6	6	8	9	9	9	9	8	7	8	8	10	8.0	4.6	10.3	0.2	10.1
6	10	10	9	10	10	9	8	9	10	10	10	3	9.3	1.3	11.3	2.7	8.6
7	−2	−4	−12	−19	−24	−26	−22	−24	−25	−20	−19	−19	−17.1	−26.4	3.3	−27.6	30.9
8	−18	−15	−14	−12	−9	−7	−3	−1	0	−1	1	3	−7.2	9.9	2.9	−27.6	30.5
9	12	11	6	2	−4	−10	−15	−19	−20	−18	−15	−12	−6.2	1.0	13.0	−21.3	34.3
10	−12	−15	−17	−18	−19	−16	−11	−8	−6	0	3	5	−10.2	−4.0	5.8	−23.4	29.2
11	7	9	9	5	5	6	7	10	14	19	20	16	10.1	20.3	20.0	3.3	16.7
12	15	15	16	17	17	18	19	25	24	24	25	25	19.6	9.5	25.9	12.7	13.2
13	25	25	25	25	18	9	20	25	25	25	27	26	22.9	3.3	27.0	8.7	18.3
14	26	26	27	26	24	25	24	23	24	24	25	26	25.0	2.1	27.5	20.9	6.6
15	27	25	26	25	25	26	25	24	24	24	23	25	24.9	−0.1	28.0	21.4	6.6
16	26	29	29	29	29	29	29	29	29	29	29	30	28.6	3.7	30.1	24.8	5.3
17	29	29	27	26	28	26	22	13	6	6	8	9	20.0	−8.6	30.2	4.8	25.4
18	13	17	19	20	22	28	25	23	24	26	27	26	21.8	1.8	28.6	8.1	20.5
19	26	27	28	26	27	28	22	13	9	6	3	8	19.3	−2.5	28.2	1.4	26.8
20	1	0	0	−2	−2	−2	−1	0	0	−5	−13	−14	−2.2	−21.5	8.8	−15.8	24.6
21	−15	−17	−20	−21	−23	−27	−29	−29	−28	−23	−10	−10	−21.2	−19.0	−5.3	−31.1	25.8
22	−9	−12	−10	−8	−7	−18	−7	2	2	8	8	9	−4.3	16.9	8.7	−18.6	27.3
23	7	8	10	9	7	8	6	5	6	6	5	4	7.0	11.3	11.4	2.4	9.0
24	3	2	2	0	1	1	2	−2	−12	−15	−13	−11	−2.9	−9.9	3.7	−20.1	23.8
25	−18	−18	−13	−15	−17	−3	−10	−5	−2	−3	−2	1	−9.3	−6.4	1.3	−18.8	20.1
26	2	2	2	5	9	26	25	26	26	20	7	−4	12.4	21.7	26.3	−4.7	31.0
27	−10	−17	−21	−24	−27	−32	−32	−32	−34	−29	−27	−28	−25.1	−37.5	−3.9	−34.5	30.6
28	−25	−25	−27	−24	−19	−16	−12	−11	−12	−13	−11	−10	−17.8	7.3	−9.8	−28.2	18.4
29	−11	−12	−13	−13	−12	−9	−11	−8	−5	−6	−4	−8	−9.4	8.4	−3.9	−13.8	9.9
30	−9	−21	−18	−10	−10	−9	−6	−5	−4	−2	0	3	−8.0	1.4	2.9	−27.1	30.0
31	5	6	16	16	17	20	18	20	20	21	24	24	16.4	24.4	24.0	2.6	21.4
Mean	3.8	3.0	3.1	2.3	1.9	2.6	2.9	3.3	3.0	3.7	4.5	4.6	3.2	10.1	12.2	−7.6	19.8

APRIL 1940

GMT	02	04	06	08	10	12	14	16	18	20	22	24	Mean	Change	Max.	Min.	Range
Date																	
1	26	27	28	26	26	25	25	24	24	24	24	23	25.3	8.9	27.5	24.0	3.5
2	24	24	22	22	22	20	19	10	1	0	−1	0	14.5	−10.8	24.1	−3.1	27.2
3	3	2	−2	1	−1	−1	−1	0	0	3	0	−6	0.1	−14.4	2.5	−6.9	9.4
4	−9	−12	−4	0	2	8	12	13	12	12	12	12	4.1	4.0	13.1	−14.6	27.7
5	10	11	11	11	0	2	−1	0	3	1	0	2	4.6	−0.5	14.3	−2.6	16.9
6	2	1	1	2	2	1	−1	−3	−4	−2	0	0	0.0	−4.6	2.8	−6.9	9.7
7	0	1	2	4	2	−3	−5	−10	−14	−15	−20	−35	−6.4	−6.4	4.1	−36.2	40.3
8	−37	−41	−42	−42	−42	−44	−41	−39	−41	−38	−37	−35	−40.0	−33.6	−34.3	−44.5	10.2
9	−36	−35	−36	−39	−42	−44	−40	−42	−36	−38	−41	−43	−39.0	1.0	−32.8	−45.9	13.1
10	−32	−30	−19	−38	−41	−41	−50	−46	−38	−32	−45	−43	−38.0	1.0	−16.0	−51.7	35.7
11	−34	−43	−50	−52	−49	−46	−45	−44	−41	−41	−38	−37	−43.5	−5.5	−32.3	−53.1	20.8
12	−38	−43	−46	−44	−39	−35	−33	−35	−38	−42	−40	−41	−39.6	3.9	−30.8	−47.9	17.1
13	−42	−45	−46	−45	−49	−48	−51	−51	−52	−52	−51	−50	−48.0	−8.4	−44.0	−53.0	9.0
14	−50	−52	−50	−50	−48	−42	−35	−27	−26	−21	−18	−20	−37.8	10.2	−18.8	−53.0	34.2
15	−16	−16	−14	−13	−13	−14	−15	−16	−17	−15	−16	−16	−15.2	22.6	−11.8	−20.0	8.2
16	−15	−18	−18	−28	−21	−16	−16	−17	−18	−18	−17	−14	−18.0	−2.8	−14.0	−28.1	14.1
17	−15	−15	−17	−14	−9	−6	3	5	16	16	17	18	−0.1	17.9	18.0	−20.9	38.9
18	18	16	19	19	18	20	19	15	17	17	14	12	16.4	16.5	20.4	10.2	10.2
19	10	7	7	6	3	0	0	5	4	−2	−4	−3	2.1	−14.3	14.0	−9.5	23.5
20	−5	−1	−4	−6	−9	−11	−11	−11	−10	−9	−9	−10	−7.6	−9.7	−1.0	−13.8	12.8
21	−8	−5	−3	−5	−10	−21	−26	−27	−29	−30	−30	−29	−17.4	−9.8	4.0	−31.5	35.5
22	−27	−26	−24	−23	−22	−17	−15	−14	−10	−9	−6	−7	−17.3	0.1	−4.7	−28.6	23.9
23	−9	−10	−10	−2	3	4	0	−8	−6	−8	−13	−15	−5.5	11.8	3.7	−16.6	20.3
24	−13	−12	−9	−7	−6	−7	−7	−7	−7	−9	−12	−18	−9.4	−3.9	−5.4	−19.7	14.3
25	−20	−22	−24	−23	−23	−24	−25	−25	−26	−23	−19	−16	−22.5	−13.1	−15.8	−27.3	11.5
26	−18	−16	−14	−10	−7	−8	−7	−8	−7	0	−3	−9	−9.2	13.3	1.3	−17.8	19.1
27	−6	−7	4	−2	−4	−9	−10	−11	−15	−14	−10	−8	−7.6	1.6	4.8	−17.6	22.4
28	−7	−8	−8	−10	−9	−8	−8	−7	−7	−9	−8	−6	−8.0	−0.4	−5.1	−11.0	5.9
29	−6	−5	−6	−7	−11	−4	−5	−1	−2	−3	−8	−7	−5.4	2.6	−0.2	−12.3	12.1
30	−14	−16	−22	−20	−22	−23	−24	−26	−18	−17	−16	−24	−19.4	−14.0	−7.0	−29.4	22.4
Mean	−12.1	−13.0	−12.5	−12.6	−13.2	−13.1	−13.1	−13.4	−12.8	−12.5	−13.2	−14.2	−12.9	8.9	−4.0	−23.0	19.0

TABLE 18.—*Little America III, bihourly surface air temperatures and extremes, with weighted daily means and daily ranges*

MAY 1940

GMT	02	04	06	08	10	12	14	16	18	20	22	24	Mean	Change	Max.	Min.	Range
Date																	
1	−26	−28	−34	−37	−39	−40	−41	−41	−46	−46	−46	−46	−38.2	−18.8	−23.2	−45.6	22.4
2	−46	−46	−45	−45	−45	−45	−46	−46	−46	−37	−32	−27	−43.0	−4.8	−25.8	−46.7	20.9
3	−22	−23	−26	−27	−27	−35	−41	−46	−48	−48	−48	−49	−35.8	7.2	−21.6	−49.8	28.2
4	−49	−48	−48	−40	−32	−27	−25	−25	−26	−25	−26	−27	−34.1	1.7	−24.7	−50.1	25.4
5	−28	−29	−33	−33	−29	−32	−28	−28	−39	−43	−46	−45	−33.7	0.4	−25.2	−46.7	21.5
6			−52			−57			−58			−59	−54.5	−20.8	−44.8	−59.6	14.8
7			−53			−56			−49			−52	−53.2	1.3	−46.5	−59.3	12.8
8			−42			−40			−44			−41	−42.7	10.5	−33.9	−55.1	21.2
9			−41			−46			−49			−53	−45.1	−2.4	−35.8	−52.6	16.8
10			−55			−53			−60			−64	−56.3	−11.2	−48.1	−64.5	16.4
11			−66			−58			−45			−35	−54.4	1.9	−34.5	−71.3	36.8
12			−34			−37			−48			−48	−39.3	15.1	−30.7	−50.5	19.8
13			−37			−40			−45			−48	−42.0	−2.7	−33.1	−48.7	15.6
14			−50			−54			−60			−60	−54.1	−12.1	−41.5	−62.1	20.6
15			−59			−63			−60			−55	−59.1	−5.0	*−50.0*	−64.4	14.4
16			−49			−55			−48			−38	−49.0	10.1	−37.3	−57.5	20.2
17			−39			−26			−13			−9	−25.4	23.6	−9.0	−40.6	31.6
18			22			16			14			16	12.6	38.0	22.1	−10.5	32.6
19			17			4			−2			8	8.1	−4.5	21.4	−4.6	26.0
20	9	2	−3	2	2	−7	3	7	1	0	−2	−4	1.3	−6.8	8.8	−6.8	15.6
21	−7	−1	−8	−7	−7	−7	−10	−15	−17	−20	−21	−24	−11.2	−12.5	−1.3	−25.6	24.3
22	−22	−30	−30	−26	−28	−20	−16	−16	−30	−34	−41	−37	−27.0	−15.8	−14.9	−41.0	26.1
23	−41	−30	−14	−22	−25	−14	−26	−13	−13	−30	−41	−42	−25.7	1.3	−6.2	−45.3	39.1
24			−44			−36	−29	−29	−32	−34	−34	−43	−38.4	−12.7	*−22.0*	−49.9	27.9
25	−52	−55	−52	−44	−32	−40	−35	−35	−30	−25	−25	−27	−38.3	0.1	−24.0	−55.3	31.3
26	−24	−20	−19	−18	−17	−17	−15	−16	−16	−15	−11	−10	−17.2	21.1	−9.7	−29.4	19.7
27	−8	−5	−3	0	4	4	8	9	9	4	−2	−6	1.0	18.2	10.0	−17.2	27.2
28	−15	−18	−21	−21	−21	−24	−23	−25	−25	−12	−4	0	−17.7	−18.7	−0.2	−35.1	34.9
29	2	1	−1	−8	−13	−16	−20	−25	−29	−40	−42	−43	−17.7	0.0	1.6	−43.1	44.7
30	−43	−43	−39	−41	−36	−32	−30	−29	−28	−28	−28	−30	−34.7	−17.0	−24.6	−43.1	18.5
31	−30	−32	−33	−23	−20	−30	−29	−33	−45	−47	−50	−57	−34.6	0.1	−12.1	−57.5	45.4
Mean	−30.1	−30.9	−31.9	−31.6	−30.9	−32.8	−31.6	−31.5	−34.2	−34.3	−34.5	−34.0	−32.3	10.2	−19.9	−44.8	24.9

[June, July, August, and September temperatures given in Table 19]

OCTOBER 1940

Date																	
1	13	12	0	3	6	−2	0	0	1	4	2	5	3.9	−4.1	14.9	−2.4	17.3
2	4	2	1	1	−2	1	0	2	−4	−2	−8	−8	−0.5	−4.4	5.8	−10.4	16.2
3	−9	−14	−17	−14	−27	−28	−28	−30	−29	−25	−20	−20	−21.2	−20.7	−8.5	−31.8	23.3
4	−18	−16	−16	−19	−17	−8	2	2	−12	−10	−8	−20	−11.7	9.5	3.0	−23.6	26.6
5	−18	−14	−8	−8	−14	−12	−14	−17	−18	−17	−17	−13	−14.4	−2.7	−5.1	−20.1	15.0
6	−12	−18	−26	−25	−27	−26	−26	−18	−17	−10	−6	−10	−18.5	−4.1	−5.3	−32.6	27.3
7	−8	−7	−2	−2	−4	−5	−8	−10	−15	−14	−19	−25	−9.3	9.2	0.0	−26.9	26.9
8	−24	−27	−32	−33	−34	−35	−36	−38	−40	−38	−35	−34	−33.4	−24.1	−24.6	−41.3	16.7
9	−31	−34	−39	−44	−46	−47	−48	−36	−38	−34	−29	−29	−38.1	−4.7	−27.0	−48.8	21.8
10	−28	−25	−27	−32	−30	−32	−29	−26	−23	−19	−16	−14	−25.7	12.4	−14.2	−34.2	20.0
11	−16	−9	−9	−11	−9	−9	−9	−8	−5	−4	−2	−3	−8.3	17.4	−1.2	−19.7	18.5
12	−2	−4	−16	−16	−18	−30	−35	−34	−35	−33	−32	−30	−22.6	−14.3	−1.0	−35.8	34.8
13	−29	−32	−33	−37	−18	−20	−20	−17	−10	−2	6	2	−18.8	3.8	7.0	−36.4	43.4
14	5	6	9	9	9	10	11	10	9	7	5	6	7.8	26.6	13.0	2.2	10.8
15	7	10	12	10	9	8	6	5	5	5	5	0	7.1	−0.7	14.0	−0.6	14.6
16	0	−3	−4	−1	−11	−18	−19	−15	−9	−9	−6	−8	−8.2	−15.3	0.7	−20.4	21.1
17	−11	−16	−19	−22	−26	−29	−24	−24	−24	−22	−20	−17	−20.8	−12.6	−7.5	−29.3	21.8
18	−14	−15	−15	−18	−14	−13	−15	−17	−15	−18	−15	−13	−15.3	5.5	−10.9	−18.8	7.9
19	−13	−12	−11	−11	−10	−10	−12	−10	−6	−3	−3	0	−9.0	6.3	−0.7	−13.9	13.2
20	1	2	−9	−16	0	0	0	−1	−2	−2	−1	0	−2.3	6.7	4.8	−19.7	24.5
21	5	5	7	5	8	9	9	9	10	11	8	6	7.4	9.7	10.9	0.4	10.5
22	5	4	4	4	−1	−9	−10	−8	−6	−4	0	−2	−2.1	−9.5	6.3	−12.5	18.8
23	−2	−5	−9	−15	−17	−21	−27	−25	−24	−19	−8	−4	−14.6	−12.5	−1.2	−24.9	23.7
24	−6	−8	−14	−16	−20	−24	−26	−25	−22	−18	−16	−15	−17.0	−2.4	−3.9	−27.6	23.7
25	−14	−15	−17	−24	−28	−28	−28	−25	−18	−15	−10	−9	−19.5	−2.5	−6.2	−31.6	25.4
26	−9	−12	−16	−20	−22	−22	−25	−22	−18	−15	−12	−9	−16.8	2.7	−7.7	−26.7	19.0
27	−6	−6	−6	−7	−10	−16	−12	−10	−5	−4	−3	−4	−7.6	9.2	−2.0	−16.4	14.4
28	−4	−8	−11	−15	−18	−21	−21	−17	−15	−2	2	3	−10.9	−3.3	3.2	−21.5	24.7
29	14	12	11	10	10	−5	−6	1	6	8	8	5	6.3	17.2	13.6	−11.8	25.6
30	4	3	2	−2	−4	−5	−4	−4	−4	−3	−1	0	−1.3	−7.6	6.0	−5.9	11.9
31	1	0	−4	−6	−10	−14	−14	−11	−5	−3	−2	0	−5.7	−4.4	1.2	−15.6	16.8
Mean	−6.9	−7.8	−10.0	−12.0	−12.4	−14.3	−15.5	−13.5	−12.3	−10.0	−8.2	−8.4	−11.0	9.2	−0.7	−21.2	20.5

NOVEMBER 1940

Date																	
1	4	2	−3	−6	−10	−18	−21	−19	−16	−11	−10	−6	−9.2	−3.5	3.8	−22.0	25.8
2	−6	−6	−5	−3	−3	−1	−1	−4	−2	−1	4	3	−2.2	7.0	4.1	−8.3	12.4
3	1	0	−3	−5	−12	−14	−14	−14	−14	−10	−8	−7	−7.9	−5.7	3.0	−15.5	18.5
4	−6	−5	−7	−11	−14	−16	−14	−12	−9	−8	−7	−4	−9.5	−1.6	−3.8	−17.9	14.1
5	−3	−3	−6	−8	−9	8	−4	−3	2	0	−1	2	−2.3	7.2	11.6	−11.7	23.3
6	3	3	2	0	−1	−4	−3	−2	−1	2	4	3	0.5	2.8	6.2	−5.7	11.9
7	4	4	3	1	−4	−2	2	4	8	10	16	16	4.6	4.1	17.0	−4.4	21.4
8	17	17	11	9	6	1	4	8	10	14	15	17	10.8	6.2	17.0	0.0	17.0
9	18	17	15	14	12	15	14	14	14	15	16	16	15.0	4.2	18.5	15.4	3.1
10	16	16	15	14	12	12	11	10	6	16	14	14	13.1	−1.9	19.6	5.3	14.3
11	15	16	15	16	14	10	13	14	13	14	15	15	14.1	1.0	20.5	9.1	11.4
12	17	16	15	14	14	11	10	8	7	3	2	3	10.5	−3.6	18.9	1.2	17.7
13	2	6	2	−2	−6	−7	−7	−8	−6	−4	−2	−2	−3.0	−13.5	5.5	−9.1	14.6
14	0	−1	−3	−4	−6	−1	2	4	3	5	5	5	0.5	3.5	6.0	−8.5	14.5
15	6	6	7	7	8	12	12	12	9	13	14	15	9.6	9.1	15.2	3.6	11.6
16	12	10	3	2	3	1	−3	−2	2	9	15	13	5.5	−4.1	17.7	−4.1	21.8
17	13	12	11	10	−1	2	10	15	18	17	22	22	12.2	6.7	25.0	−5.3	30.3
18	19	17	17	14	13	13	12	13	15	16	18	20	15.7	3.5	22.2	11.1	11.1
19	19	20	16	14	13	12	12	11	13	13	13	13	14.4	−1.3	19.8	10.9	8.9
20	13	12	9	10	10	8	11	7	11	8	10	8	10.0	−4.4	14.0	4.9	9.1

TABLE 18.—*Little America III, bihourly surface air temperatures and extremes, with weighted daily means and daily ranges*—Continued

NOVEMBER 1940—Continued

GMT	02	04	06	08	10	12	14	16	18	20	22	24	Mean	Change	Max.	Min.	Range
Date																	
21	8	8	8	9	9	9	8	7	8	9	11	11	8.6	−1.4	12.2	6.3	5.9
22	11	9	9	11	7	4	5	7	8	10	10	10	8.5	−0.1	13.0	−0.8	13.8
23	10	10	8	7	4	3	2	2	4	9	10	−10	5.8	−2.7	11.2	0.0	11.2
24	10	10	7	2	0	3	4	8	10	10	12	18	6.6	0.8	18.3	−3.1	21.4
25	17	14	10	6	2	−1	0	0	5	7	9	9	6.9	0.3	18.0	−1.8	19.8
26	9	8	6	4	1	−1	0	2	4	7	9	10	4.9	−2.0	10.2	−1.4	11.6
27	10	9	6	4	2	2	2	3	5	6	7	8	5.4	0.5	10.2	0.7	9.5
28	9	11	11	11	9	10	12	14	15	22	20	17	13.0	7.6	24.4	8.2	16.2
29	18	15	15	12	10	10	9	8	9	12	10	10	11.8	−1.2	20.0	7.9	12.1
30	9	10	11	12	10	14	12	15	15	16	17	16	13.1	1.3	17.4	7.3	10.1
Mean	9.2	8.8	6.8	5.5	3.1	3.2	3.3	4.1	5.5	7.7	9.0	8.8	6.2	3.8	13.9	−0.9	14.8

DECEMBER 1940

Date																	
1	15	12	12	10	6	3	6	8	12	9	13	15	10.1	−3.0	16.5	2.2	14.3
2	15	13	10	9	7	7	6	9	10	11	12	13	10.3	0.2	16.1	6.4	9.7
3	15	11	13	12	10	11	10	11	12	12	15	17	12.3	2.0	16.9	9.9	7.0
4	15	17	19	17	17	19	22	25	27	25	26	28	21.1	8.8	28.2	15.3	12.9
5	28	25	25	24	22	20	19	22	20	19	24	25	22.6	1.5	27.8	19.1	8.7
6	26	24	24	26	24	23	24	27	28	30	32	32	26.4	3.8	32.3	22.2	10.1
7	33	36	30	26	22	18	19	20	21	22	25	27	25.2	−1.2	42.7	15.9	26.8
8	28	27	27	22	17	13	13	15	17	20	22	24	20.9	−4.3	28.2	12.0	16.2
9	24	23	20	17	13	11	9	8	10	12	15	16	15.2	−5.7	23.5	6.6	16.9
10	16	15	12	10	9	6	6	7	7	12	17	17	11.0	−4.2	17.0	3.0	14.0
11	17	18	14	12	10	7	8	8	13	16	17	20	13.2	2.2	20.4	6.6	13.8
12	22	22	17	15	12	10	8	9	10	12	14	14	14.0	0.8	21.6	5.5	16.1
13	16	13	13	9	8	8	8	10	10	10	9	10	11.4	−2.6	15.8	5.1	10.7
14	11	12	12	9	7	5	6	7	8	10	10	10	8.9	−2.5	13.2	3.2	10.0
15	13	14	14	10	10	10	9	12	13	14	16	17	12.4	3.5	18.0	8.9	9.1
16	18	19	16	16	15	6	11	8	10	10	15	13	13.3	0.9	21.4	5.2	16.2
17	14	14	14	12	12	8	7	8	10	11	13	14	11.1	−2.2	20.0	4.8	15.2
18	14	15	15	13	12	10	9	10	13	17	20	21	13.8	2.7	21.9	8.0	13.9
19	27	29	20	20	20	20	22	20	21	23	24	26	22.4	8.6	29.0	18.3	10.7
20	25	24	23	22	21	21	21	22	23	24	27	28	23.2	0.8	28.0	20.7	7.3
21	29	31	30	30	29	30	30	31	31	28	30	32	30.5	7.3	32.9	27.1	5.8
22	29	27	24	24	22	23	20	19	17	17	17	18	22.0	−8.5	32.5	14.7	17.8
23	18	17	16	13	9	7	8	10	10	14	18	22	13.4	−9.6	21.5	6.1	15.4
24	22	23	24	22	22	22	22	22	22	23	26	26	23.0	9.6	30.3	16.1	14.2
25	28	27	26	24	21	23	24	25	22	20	21	22	23.8	0.8	27.7	18.5	9.2
26	18	18	20	20	21	21	24	27	30	30	29	30	23.7	−0.1	30.7	16.5	14.2
27	32	32	33	30	31	28	29	30	31	31	32	32	30.8	7.1	32.9	26.2	6.7
28	32	31	31	30	30	31	30	30	30	30	32	31	30.7	−0.1	33.1	29.3	3.8
29	32	29	29	27	25	22	21	24	25	28	28	30	26.7	−4.0	31.9	19.8	12.1
30	29	29	30	30	29	27	25	24	25	26	29	31	27.8	1.1	31.1	24.5	6.6
31	31	32	31	30	30	29	28	29	30	32	33	34	30.6	2.8	35.0	28.2	6.8
Mean	22.3	21.9	20.8	19.1	17.5	16.1	16.3	17.3	18.3	19.3	21.3	22.4	19.4	3.6	25.7	13.7	12.0

JANUARY 1941

Date																	
1	31	32	32	30	30	30	30	30	29	29	33	33	30.8	0.2	35.9	28.1	7.8
2	31	31	20	30	29	27	27	27	28	28	28	28	28.9	−1.9	32.8	25.5	7.3
3	29	28	24	20	16	15	16	19	20	21	21	26	21.3	−7.6	29.5	14.4	15.1
4	27	26	23	23	24	24	24	22	22	21	21	21	23.3	2.1	28.0	19.5	6.5
5	20	21	19	18	17	18	17	18	18	18	20	21	18.8	−2.1	23.0	16.1	6.9
6	21	21	21	21	21	21	21	22	23	26	25	24	22.1	0.9	32.1	20.0	12.1
7	24	24	23	24	21	20	20	19	20	20	20	21	21.4	−0.7	25.0	16.3	8.7
8	20	18	20	20	20	20	18	15	14	12	14	16	17.4	−4.0	21.0	11.8	9.2
9	14	20	18	16	16	14	14	14	16	19	17	16	16.2	−1.3	22.4	12.0	10.4
10	15	15	13	10	10	10	11	12	13	14	16	19	13.0	−3.2	18.9	7.6	11.3
11	19	18	15	13	10	8	12	15	13	20	22	24	15.5	2.5	24.8	5.9	18.9
12	25	23	24	20	14	10	7	8	10	13	14	18	15.8	3.3	26.2	5.7	20.5
13	23	23	22	19	17	21	22	22	23	23	24	25	21.7	2.0	25.3	16.5	8.8
14	20	23	20	16	14	15	14	14	14	16	14	16	16.7	−4.1	25.7	12.4	13.3
15	16	16	16	14	12	10	8	8	13	15	18	19	13.6	−3.1	19.1	8.6	10.5
16	20	19	17	14	12	11	11	12	12	16	15	18	14.8	1.2	20.4	8.1	12.3
17	18	14	10	5	4	6	6	7	9	10	11	11	9.5	−5.3	17.9	4.4	13.5
18	12	13	12	11	10	11	11	11	12	14	15	16	12.1	2.6	16.6	10.0	6.6
19	16	14	13	10	14	11	12	12	13	15	15	16	13.4	1.3	17.2	8.2	9.0
20	16	19	22	22	16	15	15	16	17	17	18	18	17.5	4.1	23.0	14.1	8.9
21	19	19	18	14	13	13	13	15	14	14	16	19	15.5	−1.9	19.4	12.6	6.8
22	19	20	20	16	12	11	13	20	22	23	24	23	18.4	2.8	27.0	10.2	16.8
23	24	20	23	24	25	24	25	25	22	22	23	23	23.3	4.9	26.7	19.1	7.6
24	23	22	20	16	14	17	12	10	15	14	16	18	16.6	−6.7	22.8	7.0	15.8
25	16	14	14	12	11	12	12	13	15	15	15	18	13.9	−2.7	18.8	10.6	8.2
26	19	18	17	17	16	14	12	13	15	16	18	21	16.2	2.3	20.7	9.2	11.5
27	27	26	25	23	22	22	17	13	16	16	18	20	20.4	4.2	27.3	13.1	14.2
28	18	18	16	10	9	10	6	5	7	9	12	11	11.3	−9.1	21.3	4.1	17.2
29	11	12	13	4	0	0	−4	−6	−1	4	8	11	4.3	−7.0	14.0	−7.9	21.9
30	9	18	7	8	11	13	13	15	18	18	20	24	14.0	9.7	24.0	7.1	16.9
31	21	20	19	18	17	15	15	15	16	16	17	18	17.3	3.3	23.8	15.0	8.8
Mean	20.1	20.2	18.9	16.7	15.4	15.1	14.5	14.9	16.1	17.2	18.3	19.7	17.3	3.5	23.6	11.8	11.8

TABLE 19.—*Little America III, weighted daily temperatures and daily ranges for months with fragmentary records*

Date	June					July					August					September				
	Mean	Change	Max.	Min.	Range	Mean	Change	Max.	Min.	Range	Mean	Change	Max.	Min.	Range	Mean	Change	Max.	Min.	Range
1	−57.0	−22.4	−41.5	−62.2	20.7	−20.0	4.5	−11.6	−37.3	25.7	−30.0	−20.0	−6.2	−38.4	32.2	−67.3	−2.4	−56.8	−74.4	17.6
2	−27.5	29.5	−17.4	−56.8	39.4	−7.6	12.4	−3.1	−28.9	25.8	−17.8	12.2	−2.1	−36.4	34.3	−65.2	2.1	−50.8	−73.4	22.6
3	−37.3	−9.8	−27.3	−57.0	29.7	3.3	10.9	13.0	−20.9	33.9	−41.8	−24.0	−33.5	−53.1	19.6	−70.2	−5.0	−65.0	−73.8	8.8
4	−27.1	10.2	−13.2	−57.8	44.6	8.0	4.7	12.7	−5.0	17.7	−52.6	−10.8	−38.2	−62.0	23.8	−60.1	10.1	−48.7	−69.5	20.8
5	−34.7	−7.6	−14.6	−55.6	41.0	−4.0	−12.0	5.2	−10.3	15.5	−51.4	1.2	−41.0	−61.4	20.4	−69.2	−9.1	−59.8	−75.0	15.2
6	−57.4	−22.7	−48.7	−63.3	14.6	−17.6	−13.6	−2.1	−29.0	26.9	−29.0	22.4	−7.4	−46.1	38.7	−68.0	1.2	−51.3	−74.2	22.9
7	−39.8	17.6	−22.1	−57.8	35.7	−32.1	−24.5	−17.1	−42.7	25.6	−20.3	8.7	−7.1	−28.6	21.5	−56.4	11.6	−51.9	−64.7	12.8
8	−19.1	20.7	−9.8	−28.7	18.9	−33.6	−1.5	−8.0	−42.5	34.5	−22.0	−2.7	−15.1	−37.5	22.4	−64.5	−8.1	−52.8	−72.3	19.5
9	−9.1	10.0	4.0	−20.0	24.0	−16.3	17.3	−0.7	−38.3	37.6	−45.3	−23.3	−30.6	−56.7	26.1	−49.7	14.8	−35.5	−61.1	25.6
10	−29.3	−20.2	−10.3	−44.4	34.1	−45.2	−28.9	−38.3	−49.3	11.0	−23.8	21.5	−8.7	−46.8	38.1	−54.5	−4.8	−35.9	−62.1	26.2
11	−29.3	0.0	−11.4	−45.8	34.4	−26.9	18.3	−19.7	−38.3	18.6	−13.8	10.0	−6.2	−25.2	19.0	−52.3	2.2	−40.1	−60.4	20.3
12	−9.2	20.1	−4.9	−21.9	17.0	−35.1	−8.2	−20.4	−51.6	31.2	−16.5	−2.7	−6.9	−31.2	24.3	−33.5	18.8	−27.6	−40.8	13.2
13	−31.4	−22.2	−21.2	−39.8	18.6	−47.2	−12.1	−38.2	−57.8	19.6	−29.4	−12.9	−7.2	−44.1	36.9	−26.9	6.6	−20.7	−32.1	11.4
14	−7.8	23.6	3.4	−32.1	35.5	−49.8	−2.6	−32.8	−60.2	27.4	−31.8	−2.4	−23.5	−42.1	18.6	−41.5	−14.6	−20.7	−55.7	35.0
15	−3.8	4.0	7.5	−24.6	32.1	−50.6	−0.8	−37.3	−62.3	25.0	−32.0	−0.2	−20.9	−49.5	28.6	−58.1	−16.6	−59.7	−63.1	3.4
16	−26.6	−22.8	−21.3	−30.2	8.9	−64.3	−13.7	−54.9	−71.1	16.2	−26.4	5.6	−19.7	−34.9	15.2	−59.1	−1.0	−46.7	−64.4	17.7
17	−35.7	−9.1	−25.5	−44.5	19.0	−48.3	16.0	−39.4	−53.8	14.4	−41.8	−15.4	−32.9	−52.6	19.7	−51.8	7.3	−38.3	−60.9	22.6
18	−54.2	−18.5	−44.6	−60.0	15.4	−59.5	−11.2	−53.3	−63.1	9.8	−29.9	11.9	−3.3	−49.6	46.3	−61.6	−9.8	−50.8	−66.1	15.3
19	−53.4	0.8	−31.9	−59.2	27.3	−56.9	−0.4	−37.4	−63.1	25.7	−7.3	22.6	−1.0	−18.2	17.2	−57.2	4.4	−50.2	−63.6	13.4
20	−45.0	8.4	−37.0	−53.8	16.8	−44.4	12.5	−27.7	−55.6	27.9	−16.6	−9.3	−3.1	−32.6	29.5	−51.0	6.2	−36.2	−60.5	24.3
21	−17.7	27.3	−6.5	−42.7	36.2	−35.2	9.2	−26.5	−50.4	23.9	−19.1	−2.5	−9.6	−29.8	20.2	−60.0	−9.0	−53.1	−65.9	12.8
22	−5.0	12.7	4.0	−15.3	19.3	−20.6	14.6	−11.5	−34.3	22.8	−40.0	−20.9	−26.4	−50.6	24.2	−49.0	11.0	−27.9	−60.4	32.5
23	−8.7	−3.7	−1.9	−14.5	12.6	−30.0	−9.4	−17.7	−44.5	26.8	−18.6	21.4	−8.4	−52.8	44.4	−21.1	27.9	−5.8	−40.7	34.9
24	−13.0	−4.3	−5.5	−22.5	17.0	−29.1	0.9	−12.5	−44.6	32.1	−11.6	7.0	−5.7	−22.1	16.4	−1.1	20.0	8.5	−9.7	18.2
25	−5.8	7.2	0.8	−12.7	13.5	−25.5	3.6	−10.6	−42.5	31.9	−41.8	−30.2	−20.2	−54.9	34.7	−10.8	−9.7	0.2	−28.2	28.4
26	−6.6	−0.8	4.0	−18.3	22.3	−13.9	11.6	−8.8	−24.8	16.0	−49.8	−8.0	−38.3	−53.8	15.5	−17.9	−7.1	−6.8	−28.8	22.0
27	−9.7	−3.1	2.2	−21.7	23.9	−16.5	−2.6	−4.3	−27.2	22.9	−46.3	3.5	−28.6	−58.9	30.3	−16.8	1.1	−12.5	−19.7	7.2
28	−8.3	1.4	2.0	−22.2	24.2	−4.0	12.5	4.0	−16.6	20.6	−29.7	16.6	−22.3	−49.9	27.6	−11.3	5.5	0.8	−24.6	25.4
29	−24.4	−16.1	−4.7	−38.8	34.1	−6.3	−2.3	2.0	−18.4	20.4	−40.7	−11.0	−27.5	−54.4	26.9	3.6	14.9	13.0	−2.6	15.6
30	−24.5	−0.1	−3.6	−38.3	34.7	0.4	6.7	4.7	−3.1	7.8	−57.5	−16.8	−44.6	−64.6	20.0	8.0	4.4	14.6	−9.1	23.7
31						−10.0	−10.4	2.6	−29.9	32.5	−64.9	−7.4	−47.9	−72.8	24.9					
Mean	−25.3	12.6	−13.2	−38.7	25.5	−27.0	10.0	−15.8	−39.3	23.5	−32.2	12.4	−19.2	−45.6	26.4	−43.2	8.9	−32.3	51.9	19.6

TEMPERATURE SUMMARIES

MEANS, RANGES, COMPARISONS

TABLE 20.—*Little America III, summary of mean daily temperatures*

Date	February	March	April	May	June	July	August	September	October	November	December	January
1	15.4	−7.2	25.3	−38.2	−57.0	−20.0	−30.0	−67.3	3.9	−9.2	10.1	30.8
2	11.4	0.0	14.5	−43.0	−27.5	−7.6	−17.8	−65.2	−0.5	−2.2	10.3	28.9
3	15.8	−1.0	0.1	−35.8	−37.3	3.3	−41.8	−70.2	−21.2	−7.9	12.3	21.3
4	9.8	3.4	4.1	−34.1	−27.1	8.0	−52.6	−60.1	−11.7	−9.5	21.1	23.4
5	7.1	8.0	4.6	−33.7	−34.7	−4.0	−51.4	−69.2	−14.4	−2.3	22.6	18.8
6	6.8	9.3	0.0	−54.5	−57.4	−17.6	−29.0	−68.0	−18.5	0.5	26.4	22.1
7	3.7	−17.1	−6.4	−53.2	−39.8	−32.1	−20.3	−56.4	−9.3	4.6	25.2	21.4
8	10.0	−7.2	−40.0	−42.7	−19.1	−33.6	−22.0	−64.5	−33.4	10.8	20.9	17.4
9	3.7	−6.2	−39.0	−45.1	−9.1	−16.3	−45.3	−49.7	−38.1	15.0	15.2	16.2
10	9.8	−10.2	−38.0	−56.3	−29.3	−45.2	−23.8	−54.5	−25.7	13.1	11.0	13.0
11	6.6	10.1	−43.5	−54.4	−29.3	−26.9	−13.8	−52.3	−8.3	14.1	13.2	15.5
12	12.4	19.6	−39.6	−39.3	−9.2	−35.1	−16.5	−33.5	−22.6	10.5	14.0	15.8
13	4.2	22.9	−48.0	−42.0	−31.4	−47.2	−29.4	−26.9	−18.8	−3.0	11.4	21.7
14	7.0	25.0	−37.8	−54.1	−7.8	−49.8	−31.8	−41.5	7.8	0.5	8.9	16.7
15	17.7	24.9	−15.2	−59.1	−3.8	−50.6	−32.0	−58.1	7.1	9.6	12.4	13.6
16	11.9	28.6	−18.0	−49.0	−26.6	−64.3	−26.4	−59.1	−8.2	5.5	13.3	14.8
17	5.6	20.0	−0.1	−25.4	−35.7	−48.3	−41.8	−51.8	−20.8	12.2	11.1	9.5
18	−4.7	21.8	16.4	12.6	−54.2	−59.5	−29.9	−61.6	−15.3	15.7	13.8	12.1
19	6.1	19.3	2.1	8.1	−53.4	−56.9	−7.3	−57.2	−9.0	14.4	22.4	13.4
20	14.5	−2.2	−7.6	1.3	−45.0	−44.4	−16.6	−51.0	−2.3	10.0	23.2	17.5
21	9.8	−21.2	−17.4	−11.2	−17.7	−35.2	−19.1	−60.0	7.4	8.6	20.5	15.5
22	14.2	−4.3	−17.3	−27.0	−5.0	−20.6	−40.0	−49.0	−2.1	8.5	22.0	18.4
23	23.1	7.9	−5.5	−25.7	−8.7	−30.0	−18.6	−21.1	−14.6	5.8	13.4	23.3
24	15.1	−2.9	−9.4	−38.4	−13.0	−29.1	−11.6	−1.1	−17.0	6.6	23.0	16.6
25	17.9	−9.3	−22.5	−38.3	−5.8	−25.5	−41.8	−10.8	−19.5	6.9	23.8	13.9
26	19.1	12.4	−9.2	−17.2	−6.6	−13.9	−49.8	−17.9	−16.8	4.9	23.7	16.2
27	8.1	−25.1	−7.6	1.0	−9.7	−16.5	−46.3	−16.8	−7.6	5.4	30.8	20.4
28	3.2	−17.8	−8.0	−17.7	−8.3	−4.0	−29.7	−11.3	−10.9	13.0	30.7	11.3
29	8.3	−9.4	−5.4	−17.7	−24.4	−6.3	−40.7	3.6	6.3	11.8	26.7	4.3
30		−8.0	−19.4	−34.7	−24.5	0.4	−57.5	8.0	−1.3	13.1	27.8	14.0
31		16.4		−34.6		−10.0	−64.9		−5.7		30.6	17.3
Mean	10.1	3.2	−12.9	−32.3	−25.3	−27.0	−32.2	−43.2	−11.0	6.2	19.4	17.3

TABLE 21a.—*Little America and Bay of Whales, comparisons of mean surface air temperatures (° F.) by months*

Location and time	January	February	March	April	May	June	July	August	September	October	November	December	January	Year
Mean Temperatures at 6-hourly observations#:														
Little America III:														
GMT: 06		10.7	3.9	−12.6	−31.9	−25.2	−25.8	−30.7	−42.2	−10.2	6.9	20.9	18.9	−9.8
12		7.4	2.0	−13.1	−31.8	−24.1	−25.8	−30.8	−45.4	−14.8	3.2	16.1	15.1	−11.7
18		9.3	2.2	−12.7	−33.0	−25.6	−28.6	−34.7	−44.7	−12.5	5.6	18.3	16.1	−11.7
24		13.4	4.8	−14.1	−33.9	−25.4	−27.6	−33.1	−39.6	−8.3	9.6	22.4	19.7	−9.7
Mean Temperatures:														
Bay of Whales:														
Year: 1940		10.1	3.2	−12.9	−32.3	−25.3	−27.0	−32.2	−43.2	−11.0	6.2	19.4	17.3	−10.6
1934		−0.4	−14.0	−15.7	−19.4	−13.7	−37.1	−38.6	−34.2	−14.3	−2.0	17.2	24.1	−12.7
1929	21.1	11.0	−5.0	−29.7	−22.7	−10.6	−45.8	−28.0	−44.2	−17.7	1.7	19.3	19.3	−12.8
1911		4.3	−6.7	−17.7	−31.7	−29.9	−33.7	−48.6	−35.5	−11.6	4.1	19.9	14.5	−14.4
Average	(*)	6.2	−5.6	−19.0	−26.5	−19.9	−35.9	−36.8	−39.3	−13.6	2.5	19.0	19.2	**−12.6
Mean Daily Maximum Temperatures:														
Little America:														
Year: 1940		18.0	12.2	−4.0	−19.9	−13.2	−15.8	−19.2	−32.3	−0.7	13.9	25.7	23.6	−1.0
1934		6.4	−3.4	−6.7	−10.3	−4.6	−24.7	−27.1	−20.1	−6.0	4.6	24.0	28.2	−3.6
1929	28.9	17.8	4.2	−20.6	−13.1	−1.1	−32.8	−17.0	−34.4	−8.6	9.0	25.5	23.7	−3.9
Average	(*)	14.1	4.3	−10.4	−14.4	−6.3	−24.4	−21.1	−28.9	−5.1	9.2	25.1	25.2	**−2.8
Mean Daily Minimum Temperatures:														
Little America.														
Year: 1940		2.0	−7.6	−23.0	−44.8	−38.7	−39.3	−45.6	−51.9	−21.2	−0.9	13.7	11.8	−20.5
1934		10.5	−26.8	−26.0	−28.8	−23.3	−48.0	−49.6	−47.2	−25.3	−11.2	9.1	19.1	−22.7
1929	12.7	2.5	−15.4	−37.8	−32.0	−20.5	−56.4	−38.4	−53.2	−29.2	−7.6	12.4	12.8	−22.1
Average	(*)	−2.0	−16.6	−28.9	−35.2	−27.5	−47.9	−44.5	−50.8	−25.2	−6.6	11.7	14.6	**−21.7
Mean Daily Temperature Range:														
Little America:														
Year: 1940		16.0	19.8	19.0	24.9	25.5	23.5	26.4	19.6	20.5	14.8	12.0	11.8	19.5
1934		16.9	23.4	19.3	18.5	18.7	23.3	22.5	27.1	19.3	15.8	14.9	9.1	19.1
1929	16.2	15.3	19.6	17.2	18.9	10.4	23.5	21.4	18.8	20.6	16.6	13.1	10.9	18.2
Average	(*)	16.1	20.9	18.5	20.8	21.2	23.4	23.4	21.3	20.1	15.7	13.3	10.6	**18.9

#February values from thermograph, corrected.
*January 1929 included in mean values for January.
**Mean yearly values are averages of individual yearly means, which do not agree with monthly values in 1929 and 1934.

TABLE 21b.—*Little America, comparison of extreme surface air temperatures (° F) by months*

	January	February	March	April	May	June	July	August	September	October	November	December	January	Year
Highest Mean Daily Temperatures:														
Year: 1940		23.1	28.6	25.3	12.6	−3.8	8.0	−7.3	8.0	7.8	15.7	30.8	30.8	30.8
1934		10.7	20.9	10.2	17.3	20.4	18.3	−8.9	3.6	7.5	17.8	29.6	31.4	31.4
1929	31.5	29.3	23.3	−2.0	9.6	10.8	−5.5	10.8	−13.0	7.3	12.4	29.2	31.2	31.5
Lowest Mean Daily Temperatures:														
Year: 1940		−4.7	−25.1	−48.0	−59.1	−57.4	−64.3	−64.9	−70.2	−38.1	−9.5	8.9	4.3	−70.2
1934		−19.3	−45.8	−48.9	−58.0	−49.0	−65.3	−62.0	−62.4	−38.0	−26.5	7.1	18.5	−65.3
1929	5.7	−9.7	−33.9	−49.6	−44.9	−52.0	−70.1	−57.8	−64.0	−46.9	−7.0	6.2	3.2	−70.1
Range of Mean Daily Temperatures:														
Year: 1940		27.8	53.7	73.3	71.7	61.2	72.3	57.6	78.2	45.9	25.2	21.9	26.5	101.0
1934		30.0	66.7	59.1	75.0	69.4	83.6	53.1	58.8	45.5	44.3	22.5	12.9	96.7
1929	25.8	39.0	57.2	47.6	54.5	62.8	64.6	78.6	51.0	54.2	19.0	23.0	28.0	91.6
Absolute Maximum Temperatures:														
Year: 1940		29.0	30.2	27.5	22.1	7.5	13.0	−1.0	14.6	14.9	25.0	42.7	35.9	42.7
1934		17	29.4	22.9	25.1	21.0	22.7	−0.2	10.0	12.0	22.7	37.9	32.7	37.9
1929	42.4	32.2	25.0	3.7	15.0	16.0	11.0	17.0	−2.0	13.0	23.0	35.0	33.0	42.4
Absolute Minimum Temperatures:														
Year: 1940		−15.0	−34.5	−53.1	−71.3	−63.3	−71.1	−72.8	−75.0	−48.8	−22.0	2.2	−7.9	−75.0
1934		−28.5	−55.3	−52.9	−62.4	−53.0	−70.6	−71.3	−67.0	−45.2	−35.4	−1.3	11.8	−71.3
1929	−6	−21.8	−44.0	−58.0	−51.0	−56.8	−72.2	−61.0	−67.5	−54.6	−19.0	−1.4	−6.0	−72.2
Absolute Range of Temperature:														
Year: 1940		44.0	64.7	80.6	93.4	70.8	84.1	71.8	89.6	61.7	47.0	40.5	43.8	117.7
1934		45.5	84.7	75.8	87.5	74.0	93.3	71.5	77.0	57.2	58.1	39.2	20.9	109.1
1929	48.4	54.0	69.0	61.7	66.0	72.8	83.2	78.0	65.5	67.6	42.0	36.4	39.0	114.6

TABLE 22.—*Little America, mean surface air temperatures (° F.) by 10-day periods, computed from daily means*

I=1st to 10th of month.
II=11th to 20th of month.
III=21st to end of month.

1929: January 1-31 and February 1-15 on *City of New York* in Bay of Whales.
1930: February 1-9 only.

Period	1940 ° F.	1934 ° F.	1929 ° F.	Means ° F.	Means ° C.	Period	1940 ° F.	1934 ° F.	1929 ° F.	Means ° F.	Means ° C.
Jan. I			24.4	(*)	(*)	Aug. I	−33.4	−26.8	−20.9	−27.0	−32.8
II			16.6	(*)	(*)	II	−24.5	−35.4	−18.6	−26.2	−32.3
III			22.2	(*)	(*)	III	−38.2	−52.2	−43.1	−44.5	−42.5
Feb. I	9.4		15.6	10.9	−11.7	Sept. I	−62.5	−36.5	−49.8	−49.6	−45.3
II	8.1	3.1	12.3	7.8	−13.4	II	−49.3	−44.3	−42.2	−45.3	−42.9
III	11.9	−5.3	4.2	3.6	−15.8	III	−17.6	−22.0	−40.8	−26.8	−32.7
Mar. I	−2.8	3.5	2.0	0.9	−17.3	Oct. I	−16.9	−9.8	−27.7	−18.1	−27.8
II	19.0	−11.2	1.0	2.9	−16.2	II	−9.0	−11.1	−16.8	−12.3	−24.6
III	−5.7	−32.4	−16.8	−18.3	−27.9	III	−7.4	−21.4	−9.4	−12.7	−24.8
Apr. I	−7.5	−6.0	−32.4	−15.3	−26.3	Nov. I	1.3	−11.3	0.6	−3.1	−19.5
II	−19.1	−29.6	−21.2	−23.3	−30.7	II	9.0	−3.5	−2.2	1.1	−17.2
III	−12.2	−11.5	−35.4	−19.7	−28.7	III	8 5	8.9	6.7	8.0	−13.4
May I	−43.7	−38.3	−22.0	−34.7	−37.1	Dec. I	17.5	12.7	12.2	14.1	−9.3
II	−30.1	−24.0	−28.8	−27.6	−33.1	II	14.4	17.6	19.6	17.2	−8.9
III	−23.8	3.5	−17.7	−12.7	−24.8	III	25.7	20.9	25.4	24.0	−4.2
June I	−33.8	1.8	−18.8	−16.9	−27.2		1941	1935	1930		
II	−29.6	−11.8	−4.4	−15.3	−26.3	Jan. I	21.3	21.8	26.9	31.5	−0.3
III	−12.4	−31.0	−8.5	−17.3	−27.4	II	15.1	22.3	22.0	23.1	−4.9
July I	−16.5	−40.0	−52.3	−32.9	−36.1	III	15.6	27.8	9.8	25.1	−3.8
II	−48.3	−41.3	−41.9	−43.8	−41.2	Feb. I			7.6	(#)	(#) .4
III	−17.3	−30.8	−43.4	−30.5	−34.7	Means (A)	−10.7	−12.2	−12.7	−11.2	−24.0
						(B)	−10.7	−12.7	−12.8	−12.0	−24.4

NOTE.—Times and dates of 1929–30 and 1934–5 data are for 180° W.; for 1940–1 data are Greenwich Meridian Time, and thus 12 hours ahead of previous values.

*January 1929 included in January mean.

#February 1930 included in February mean.
(A) Means of values in this table, weighted to one full year. (February 1934 I is assigned value of 6.0°).
(B) Mean values as given in Table 21a (see note there).

PART VI. SURFACE WIND OBSERVATIONS

EXPLANATORY NOTE

Surface wind measurements at Little America III were made with standard 3-cup Weather Bureau anemometers and a 4-foot windvane, mounted on a regular (1913 model) 18-foot tower of steel piping braced by three guy rods. The instruments were connected, by the customary 7-conductor cable with some supplemental wiring of various sorts, to a standard model "triple register," which recorded wind direction every minute and the passage of each mile of wind.

Final instrument installation was made some 100 feet to the south of the main camp building, in the direction of the prevailing and strongest wind, so that all but the infrequent northerly winds had an unobstructed sweep over miles of level snow before reaching the instruments. The pole was erected on April 3, 1940, and final wiring completed and the equipment in full operation by the 8th. When dismounted at the end of camp occupation on February 1, 1941, the surface level had risen some 3 feet. Approximate height above the surface of the anemometer cups at various times (the windvane was about 3 feet still higher) was:

	Feet
Apr. 4	19
Aug. 2	17½
Oct. 3	17
Dec. 1	16½
Dec. 9	16

A second anemometer installation was maintained on a short rod a few feet from the wind tower, the cups being customarily 2 meters above the snow. Records of this installation have not yet been compiled; however, some comparisons have been made to permit use of the "lower anemometer" to fill in various gaps in the record of the "upper anemometer."

Throughout most of the year three standard instruments were rotated between these two positions, so that any instrumental differences would tend to be equalized in the two records. After the shattering of the lower bearing plate of one instrument during its removal in very cold weather, the remaining two anemometers were alternated between the positions at each monthly cleaning.

All velocity readings are given in miles per hour (statute) and have been corrected according to the following table, adopted by the Weather Bureau for the 3-cup anemometer:

To velocities indicated between—

0 and 16 m. p. h., add 1 m. p. h.
17 and 26 m. p. h., no correction
27 and 35 m. p. h., subtract 1 m. p. h.
36 and 44 m. p. h., subtract 2 m. p. h.
45 and 52 m. p. h., subtract 3 m. p. h.
53 and 61 m. p. h., subtract 4 m. p. h.
62 and 70 m. p. h., subtract 5 m. p. h.

One result of such corrections is the assumption that at least one mile of wind passes in each hour, even though the anemometer cups remain completely stationary. For such hours the wind is "direction indeterminate," and is considered as calm in final summaries, creating somewhat of an anomaly in that "calms," with a mean velocity of 1 m. p. h., represent a small fraction of the total wind movement.

Prior to the final erection, the wind tower had been in operation to the northwest of the camp buildings, having been placed to the east of the first tent, even before building sites were laid out. Although the triple register was not connected to this installation, for lack of space in which to place it, a wire was connected to the ⅒ mile-contact of the upper anemometer and "blinker" readings made at the regular observations during the two months preceding the final instrumentation. These readings, together with readings of the dials of both anemometers at each observation and copious supplemental notes, have been used to reconstruct hourly values of wind velocity (and direction) for the months of February and March and the first few days of April.

Validity of such interpolations was shown by comparisons of two sets of daily mean values for the months of May and November, which were typical windy and non-windy months, respectively. For each day the mean speed was computed solely from the four regular 6-hourly observations, giving the two midnight readings single weight and the 06, 12, and 18 GMT observations double weight. In no case did the values thus computed differ by more than 3 m. p. h. from the value derived from the continuous record. For May the algebraic sum of the departures totalled +4 m. p. h., with a standard deviation of 1.05 m. p. h.; for November, the algebraic total was −5 m. p. h., with a standard deviation of 0.8 m. p. h.

TABLE 23 presents the corrected values, for each hour of each day for a full year, of the prevailing direction and total wind passage, as determined from the triple register, with interpolations as already explained. Column footings give the prevailing direction (direction recorded greatest number of times) and mean speed for each hour; for each day are given the prevailing direction, mean speed, and the direction and speed of the "maximum wind," defined as the greatest wind movement during a five-minute period.

TABLE 24 presents a summary of Table 23, containing only the prevailing direction and mean speed for each day.

TABLE 25 presents, for each day of available record, the direction and speed of the extreme wind (called by Grimminger the "absolute maximum"), defined as the mile of wind passing in the shortest time. For speeds less than 12 miles per hour this time must be greater than 5 minutes, and therefore the extreme wind is identical with the maximum wind. At Little America, gustiness is so slight that even at rather high speeds (30 to 40 m. p. h.) the extreme often is no greater than the maximum.

TABLE 26a presents a break-down by directions of the wind for each month and for the year, listing the percent of frequency (considering only duration, not speed), percent of movement (considering only movement, regardless of time), and mean speed of the wind from each of the eight directions.

TABLE 26b presents the data of Table 26a combined with similar information for 1929 and 1934 (given in Tables 38 and 39 of Grimminger's report) into 3-year means.

TABLE 26c presents, for each month and for the year, the mean speed, and the percentage of frequency (of duration) from each direction for all four years of record, in the style of the Handbuch der Klimatologie, from which the data for 1911 were taken.

TABLE 27a presents, for each month and for the year:

the prevailing direction, the direction with the highest percent of frequency in Table 26a;
the mean direction, by vectorial addition of frequencies or durations;
the resultant direction, by vectorial addition according to strength or movement;
the resultant velocity, or magnitude of the resultant direction vector;
the mean velocity, regardless of direction;
the stability (resultant velocity divided by mean velocity) in percent, giving a measure of the persistence of the wind from the mean direction; and
the components of the resultant velocity.

Also presented are various other data for each month and for the year:

the mean maximum wind, the average of the daily maxima as given in Table 23;
the absolute extreme, the highest wind recorded during the month;
the number of days on which the maximum exceeded 29 m. p. h.;
the number of days on which the mean exceeded 19.9 m. p. h.;
the number of days on which the mean was less than 5.1 m. p. h.

These last three lines are presented merely to continue Grimminger's work, without evaluation of the merit of the particular boundaries chosen.

TABLE 27b presents the data from Table 27a combined with similar data for 1929 and 1934 into mean values for the three years of available record. It includes, therefore, all or part of Tables 37, 40, and 41–A of Grimminger's study.

Lack of time and assistance precluded the tabulation of data for thermic, baric, allobaric, nephic, and similar special wind roses, or the compilation of tables similar to Grimminger's Tables 41, "Mean maximum velocity and percentage frequency with the different directions," and 42, "Percentage frequencies of cases with wind directions between stated limits" of 0–2, 3–4, 5–9, 10–14, 15–19, and similar groups of 5 m. p. h.

No means have been derived for the classic four seasons, or for the "light season" or a "dark season", because it was felt that such grouping tends to mask any significant variations without adding to climatologic knowledge.

HOURLY WIND OBSERVATION WITH DAILY MEANS AND EXTREMES

TABLE 23.—*Little America III, wind direction and speed hourly values*

[Speeds corrected to true value, miles per hour]

FEBRUARY 1940*

GMT	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13
Date													
1	S 7	S 5	SW 7	SW 6	SW 8	SW 10	S 11	NE 13	NE 12	NE 9	NE 10	NE 7	SE 6
2	SW 13	SW 12	SW 16	SW 14	SW 11	SW 10	SW 12	SW 14	SW 15	SW 10	SW 13	SW 10	S 7
3	W 3	W 4	DI 1	W 2	S 2	S 3	SW 2	E 3	DI 1	DI 1	SW 4	SE 3	E 2
4	SE 14	SE 15	SE 17	SE 19	SE 21	SE 18	SE 18	SE 20	SE 21	SE 19	SE 18	SE 18	SE 17
5	SW 4	SW 6	SW 7	S 5	S 6	S 2	S 3	S 4	S 5	SW 2	S 3	S 4	S 7
6	SE 15	SE 17	SE 19	SE 20	SE 22	SE 19	E 20	E 21	E 24	E 26	E 26	E 25	E 28
7	SE 17	SE 15	SE 14	SE 13	SE 12	SE 12	SE 8	SE 9	SE 10	S 7	S 6	S 5	S 6
8	S 11	SE 10	S 7	S 7	SE 7	S 8	S 6	S 7	SW 5	S 5	S 4	SW 4	S 4
9	S 14	SW 13	S 15	SW 17	SW 17	SW 14	S 12	S 8	S 9	S 7	SW 12	SW 16	S 14
10	S 11	S 14	SW 17	SW 17	SW 16	SW 15	SW 14	SW 12	S 15	S 11	S 8	S 9	S 8
11	NE 10	NE 9	E 12	SE 15	S 11	S 12	SE 14	SE 12	E 11	E 10	E 8	E 9	E 11
12	E 18	E 19	E 17	E 18	E 17	E 15	E 12	E 10	E 9	E 8	SE 12	SE 15	SE 12
13	S 6	S 9	S 8	SE 10	SE 6	SE 6	SE 7	SE 8	E 6	E 5	E 4	E 5	E 6
14	E 13	SE 11	SE 14	E 12	E 16	E 18	E 16	E 14	E 16	E 17	E 17	E 16	E 13
15	E 12	E 10	SE 8	E 7	E 5	SE 4	SE 5	E 3	E 2	SE 5	E 8	E 11	E 13
16	E 12	E 11	SE 14	E 13	E 16	E 14	E 12	SE 11	SE 10	S 8	S 6	S 7	S 4
17	S 5	S 5	S 6	S 7	SW 6	S 8	SW 6	S 9	S 10	S 12	S 13	S 14	SW 14
18	SW 17	SW 14	SW 11	SW 12	SW 15	SW 16	SW 15	SW 13	SW 14	SW 10	SW 12	SW 7	SW 5
19	SW 5	S 2	S 2	E 4	E 5	NE 3	NE 4	NE 5	NE 3	NE 4	E 2	E 2	E 3
20	SW 5	SW 7	SW 4	S 6	S 3	S 4	S 5	S 4	S 5	S 6	SW 4	SW 3	SW 4
21	E 8	E 9	E 7	E 8	E 6	E 4	NE 6	NE 7	E 9	E 9	E 10	E 9	NE 8
22	E 21	E 23	E 22	E 21	E 23	E 24	E 19	E 18	E 17	E 14	E 15	E 14	NE 11
23	NW 7	N 8	E 9	E 9	E 6	E 5	E 8	E 6	NE 9	E 8	E 7	NE 6	NE 10
24	NE 8	E 9	E 10	E 18	E 6	E 5	E 7	SE 6	E 7	SE 4	SE 6	SE 5	S 6
25	SW 7	NW 6	W 6	NW 3	DI 1	N 2	N 6	NW 9	NW 12	NW 11	NW 10	W 4	SW 3
26	E 16	NE 20	E 19	E 20	E 20	E 18	SE 19	SE 20	SE 22	SE 21	SE 22	SE 23	SE 22
27	SW 11	SW 12	SW 7	SW 5	SW 6	SW 6	SW 7	W 4	NW 7	N 6	N 3	N 2	N 4
28	SE 3	SE 6	S 4	S 2	SW 6	SW 8	SW 7	SW 4	S 2	SW 4	SW 5	S 3	S 5
29	S 17	S 21	SE 24	S 23	S 23	SE 24	SE 23	S 20	S 20	SE 22	SE 20	SE 18	SE 15
Prevailing direction	S	E	SE	E	E	E	SE	SE	E	E	E	E	S
Mean speed	10.7	11.1	11.2	11.5	11.0	10.6	10.5	10.1	10.6	9.7	9.9	9.4	9.2

GMT	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Prev. dir.	Mean speed	Max. wind
Date														
1	SE 7	SE 11	S 8	S 5	S 7	S 9	SW 10	SW 12	SW 11	S 18	SW 15	S	9.3	S 18
2	S 6	S 8	S 7	S 7	S 8	S 6	SW 4	SW 2	DI 1	SW 2	SW 4	SW	8.8	SW 16
3	DI 1	DI 1	E 3	E 6	NE 8	N 9	NE 8	E 9	E 5	E 8	SE 15	E	4.3	SE 15
4	SE 18	SE 16	SE 17	SE 15	SE 14	SE 13	SE 12	S 8	S 9	S 7	SW 6	SE	15.4	SE 21
5	S 5	S 7	SE 10	S 8	SE 8	SE 9	SE 10	SE 10	SE 11	SE 13	SE 14	S	6.8	SE 14
6	E 34	E 32	E 29	E 26	E 25	E 25	SE 23	SE 24	SE 21	S 22	SE 20	E	23.4	E 34
7	S 6	S 4	S 4	S 5	S 6	S 5	S 5	S 8	S 12	S 11	S 13	S	8.9	SE 17
8	S 5	SE 6	S 6	S 7	S 8	S 7	S 7	S 9	SW 11	S 12	SW 12	S	7.3	S 12
9	S 12	S 12	S 12	SW 11	SW 12	SW 13	S 12	S 11	S 12	S 13	SW 12	S	12.5	SW 17
10	S 10	SW 9	S 6	S 8	S 7	S 8	SW 7	S 5	E 5	NE 6	E 7	S	10.2	SW 17
11	E 10	E 9	E 11	E 11	SE 13	E 12	E 13	SE 14	E 14	E 14	E 15	E	11.7	E 15
12	S 10	SE 8	S 9	S 7	S 7	S 8	S 6	S 4	S 6	S 7	S 4	S	10.8	E 19
13	E 7	E 7	E 6	E 7	E 7	E 9	SE 8	E 7	SE 7	E 5	E 12	E	7.0	E 12
14	E 15	E 14	E 12	E 10	E 8	E 9	NE 7	NE 5	E 7	E 8	NE 10	E	12.4	E 18
15	E 12	E 14	E 15	E 13	SE 10	SE 8	E 10	E 9	E 14	SE 13	SE 10	E	9.2	E 15
16	S 5	S 3	SW 3	S 5	S 4	SW 3	S 5	SW 3	S 6	S 7	SW 4	S	7.8	E 16
17	SW 15	SW 13	SW 14	SW 16	SW 17	SW 16	SW 18	S 16	S 15	S 18	SW 21	S	12.2	SW 21
18	SW 6	SW 7	SW 7	SW 7	SW 5	SW 7	SW 4	SW 3	SW 3	S 4	SW 2	SW	9.0	SW 17
19	E 2	DI 1	SE 2	DI 1	S 4	SW 5	SW 8	SW 6	SW 7	S 6	S 4	E	3.8	SW 8
20	SW 5	S 7	S 9	SE 10	SE 9	E 9	E 7	NE 8	E 9	E 9	E 6	S	6.2	SE 10
21	NE 10	NE 12	E 15	E 18	E 19	NE 18	E 20	E 21	E 18	E 17	E 20	E	12.0	E 21
22	NE 12	NE 10	NE 8	NE 9	N 7	N 6	N 9	N 10	N 11	NW 8	W 5	E	14.0	E 24
23	NE 12	N 13	N 14	NW 15	N 14	E 13	NE 10	E 5	NE 9	E 7	NE 5	E	9.0	NW 15
24	S 8	SW 9	SW 13	SW 15	SW 16	SW 19	SW 19	SW 16	SW 18	SW 15	SW 11	SW	10.7	SW 19
25	W 2	W 4	N 8	NE 9	E 10	E 12	E 9	NE 10	E 13	E 11	NE 12	NW	7.5	NW 12
26	SE 24	SE 24	SE 25	E 24	E 22	SE 18	S 12	SW 15	S 16	S 15	SW 11	SE	19.5	SE 25
27	N 5	NW 3	NW 6	N 3	NE 5	E 4	SE 5	SE 4	SE 4	SE 5	E 2	SW	5.2	SW 12
28	S 6	SW 8	S 7	S 8	S 9	S 10	S 9	S 9	S 8	S 6	SE 14	S	6.4	S 10
29	SE 13	SE 12	SE 10	SE 9	SE 8	SE 9	S 7	S 8	S 8	S 8	S 7	SE	15.4	SE 24
Prevailing direction	S	S	S	S	S	E	S	S	S	S	SW	S		E 34
Mean speed	9.8	9.8	10.2	10.2	10.2	10.3	9.8	9.3	10.0	10.2	10.1		10.2	

*All values interpolated from 6-hourly and other observations and supplemental notes, including anemometer dial readings.

TABLE 23.—*Little America III, wind direction and speed hourly values*—Continued

MARCH 1940

GMT	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13
Date													
1	S 5	SW 3	S 4	S 4	SE 7	S 8	SE 4	S 4	S 4	SE 7	SE 10	SE 13	SE 17
2	SE 12	SE 13	SE 14	SE 13	SE 11	SE 10	SE 9	SE 7	SE 6	SE 8	SE 11	SE 13	SE 13
3	SE 14	SE 12	SE 15	SE 19	SE 20	SE 22	SE 22	SE 22	SE 19	SE 18	SE 17	SE 16	SE 15
4	S 6	S 6	S 8	SE 10	SE 10	SE 8	SE 8	SE 7	SE 8	SW 9	S 8	SW 8	S 8
5	S 8	S 8	S 8	S 8	S 8	S 8	S 7	SE 8	SE 10	SE 12	SE 15	SE 14	SE 15
6	E 17	SE 17	E 19	SE 17	E 17	SE 15	E 15	SE 16	E 17	E 17	E 16	E 15	E 15
7	S 12	SW 12	S 12	SW 12	SW 12	SW 12	SW 12	SW 11	SW 10	SW 10	SW 11	SW 12	SW 14
8	SW 8	W 7	SW 6	SW 6	SW 5	SW 4	S 3	SW 4	S 5	SE 5	E 6	SE 7	E 6
9	E 19	SE 13	N 14	N 15	NW 12	W 11	W 12	W 11	W 10	W 12	SW 11	W 10	SW 10
10	SW 4	SW 4	SW 5	W 6	W 4	DI 1	W 3	SW 4	S 5	SE 5	E 6	SE 7	E 10
11	E 24	SE 26	E 24	SE 22	E 20	SE 18	E 18	SE 23	E 26	SE 30	E 30	SE 29	E 30
12	E 28	SE 26	E 27	SE 28	E 31	SE 34	E 32	SE 30	E 27	SE 28	E 30	SE 33	E 35
13	E 19	SE 15	E 13	E 13	NE 15	E 15	NE 14	E 12	NE 10	N 8	NE 8	NE 8	NE 11
14	NE 21	NE 24	NE 25	NE 27	NE 25	NE 16	N 12	N 10	N 11	N 12	N 13	N 14	N 14
15	N 12	NE 16	N 18	NE 19	NE 19	NE 18	NE 18	NE 19	NE 20	E 22	E 23	E 24	E 23
16	E 28	E 26	E 22	N 14	N 15	N 15	N 16	N 16	N 15	N 14	N 13	N 10	N 11
17	N 9	N 6	N 5	NW 8	NW 12	NW 19	NW 17	NW 14	NW 11	NW 11	NW 14	NW 17	NW 20
18	E 7	SE 8	E 10	SE 12	E 14	SE 15	E 16	SE 15	E 16	NE 16	NE 17	NE 16	NE 15
19	E 22	E 20	E 17	E 13	NE 10	E 8	NE 7	E 7	NE 6	N 6	N 5	N 5	N 5
20	S 12	S 13	S 15	SW 17	S 18	SW 15	S 14	SW 15	S 16	SW 16	S 17	SW 18	S 15
21	SW 17	SW 15	SW 13	SW 11	SW 9	SW 7	SW 6	SW 5	SW 4	W 3	SW 3	W 3	SW 4
22	W 11	W 12	W 10	SW 8	W 7	SW 6	W 4	SW 2	S 3	SE 3	E 5	E 7	E 6
23	E 26	E 23	E 22	SE 22	E 23	SE 24	E 24	SE 25	E 28	SE 30	E 25	SE 24	E 22
24	E 17	E 16	E 15	E 15	E 13	E 14	E 14	E 12	E 11	NE 7	NE 6	NE 4	NE 6
25	S 12	S 13	S 12	S 12	S 12	S 11	S 9	S 11	S 14	S 20	SE 23	S 25	SE 24
26	E 20	E 17	E 13	E 14	E 17	E 21	E 26	E 28	E 29	E 28	E 26	N 25	NE 25
27	W 15	SW 14	W 13	SW 13	S 12	SW 11	S 10	SW 9	S 8	SW 8	SW 9	SW 10	SW 8
28	SW 13	SW 14	SW 15	SW 15	S 14	SW 13	S 12	SW 11	S 10	S 8	S 9	S 10	S 10
29	W 16	SW 15	W 16	SW 16	S 17	SW 16	S 17	SW 18	S 19	SW 17	S 16	SW 15	S 15
30	E 6	SE 4	NW 5	E 5	SE 7	SE 9	SE 14	SE 19	SE 22	SE 24	E 26	SE 27	E 31
31	E 17	SE 13	E 10	NE 5	NE 8	N 4	N 6	N 8	N 10	NE 15	NE 18	NE 22	NE 25
Prevailing direction	E	SE	E	SE	E	SE	E	SE	S	SE	E	SE	E
Mean speed	14.7	13.9	13.7	13.5	13.7	13.2	12.9	13.0	13.2	13.8	14.4	14.9	15.4

GMT	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Prev. dir.	Mean speed	Max. wind
Date														
1	SE 22	SE 22	SE 20	SE 15	SE 12	SE 12	SE 12	SE 12	SE 12	SE 12	SE 12	SE	10.5	SE 22
2	SE 14	SE 15	SE 15	SE 14	SE 13	SE 12	SE 10	SE 8	SE 12	SE 14	SE 16	SE	11.8	SE 16
3	SE 14	SE 11	S 9	S 9	S 8	S 9	S 10	S 11	S 10	S 8	S 6	SE	14.0	SE 22
4	SW 9	S 10	S 8	S 7	S 6	S 7	S 8	S 10	S 9	S 8	S 6	S	8.0	S 10
5	SE 17	SE 18	SE 19	E 17	SE 16	E 18	SE 19	E 19	SE 19	E 11	SE 16	SE	13.2	SE 19
6	E 16	E 15	SE 14	E 10	SE 8	E 7	SE 6	S 8	SW 10	S 11	SW 12	E	13.8	E 19
7	SW 16	SW 17	SW 16	S 14	SW 7	S 8	SW 10	S 11	W 10	SW 8	W 7	SW	11.5	SW 17
8	SE 9	E 18	SE 20	E 21	SE 23	E 25	SE 29	E 29	E 32	E 30	E 33	E	14.2	E 33
9	W 10	SW 8	W 7	W 6	DI 1	W 6	W 7	SW 6	W 5	SW 4	SW 2	W	9.2	E 19
10	SE 12	E 14	SE 26	E 30	SE 28	E 28	SE 27	E 26	SE 26	E 25	SE 24	SE	13.8	E 30
11	SE 30	E 29	SE 29	E 29	SE 27	E 25	SE 26	E 25	SE 27	E 29	SE 30	E	26.1	E 30
12	SE 36	E 35	SE 35	E 30	SE 27	E 25	SE 22	E 22	SE 20	E 21	SE 22	E	28.5	SE 36
13	NE 13	NE 15	NE 19	NE 19	NE 19	NE 19	NE 17	NE 16	NE 17	NE 19	NE 20	NE	14.8	NE 20
14	N 15	N 14	N 13	NW 12	NW 10	NW 9	N 8	N 7	NE 6	N 8	NE 10	N	14.0	NE 27
15	E 24	E 25	E 27	E 28	E 29	E 30	E 32	E 31	E 33	E 34	E 32	E	24.0	E 33
16	N 12	N 13	NE 13	N 12	NE 11	N 11	NE 10	N 11	N 11	N 11	N 12	N	14.2	E 28
17	NW 22	NW 20	NW 19	W 17	NW 10	W 9	SW 8	S 8	SE 6	E 5	SE 6	NW	12.2	NW 22
18	NE 14	NE 15	E 16	E 17	E 19	E 18	E 19	E 20	E 20	E 21	E 22	E	15.8	E 22
19	NW 6	W 7	SW 7	S 8	SW 9	S 8	SW 7	S 9	S 9	S 10	S 11	E	9.2	E 22
20	SW 13	S 12	SW 14	SW 17	SW 19	SW 17	SW 15	SW 13	SW 13	SW 15	SW 17	SW	15.2	SW 19
21	W 5	SW 6	W 5	SW 3	DI 1	SW 3	W 4	SW 5	W 7	W 8	W 9	SW	6.5	SW 17
22	E 5	E 8	E 14	E 16	E 17	E 19	E 20	E 21	E 23	E 24	E 25	E	11.5	E 25
23	SE 19	E 16	SE 15	SE 17	SE 19	SE 19	SE 18	SE 19	SE 17	E 18	SE 17	SE	21.3	SE 30
24	NE 7	E 11	SE 10	S 9	S 5	S 6	S 7	S 8	S 10	S 11	S 12	E	10.2	E 17
25	S 23	SE 23	SE 24	SE 25	SE 25	SE 26	SE 28	SE 30	E 28	E 26	E 24	S	20.0	SE 30
26	N 24	NE 22	N 18	N 16	N 15	N 14	NW 13	W 14	W 14	SW 15	SW 14	E	19.5	E 29
27	SW 6	SW 5	W 6	SW 8	W 9	SW 10	W 11	SW 12	SW 13	SW 13	SW 13	SW	10.2	W 15
28	S 12	S 13	SW 14	S 12	SW 11	S 10	SW 10	S 10	SW 12	W 14	SW 16	S	12.0	SW 16
29	SW 16	S 17	S 17	S 18	S 19	S 16	S 15	S 12	SE 10	E 7	SE 8	S	15.3	S 19
30	SE 34	E 37	SE 39	E 40	SE 35	E 33	SE 33	E 40	SE 35	E 25	SE 20	SE	23.8	E 40
31	NE 26	NE 30	NE 34	NE 38	NE 39	NE 35	NE 33	NE 31	NE 27	NE 25	NE 23	NE	20.9	NE 39
Prevailing direction	SE	E	SE	E	SE	E	SE	E	SE	E	SE	E		E 40
Mean speed	16.2	16.8	17.5	17.2	16.0	15.9	15.9	16.2	16.2	15.8	16.0		15.0	

TABLE 23.—*Little America III, wind direction and speed hourly values*—Continued

APRIL 1949

GMT	00–01	01–02	02–03	03–04	04–05	05–06	06–07	07–08	08–09	09–10	10–11	11–12	12–13
Date													
*1	NE 20	NE 19	NE 19	NE 20	N 22	NE 30	N 27	NE 24	N 24	NE 26	NE 28	NE 30	NE 32
*2	N 40	NE 37	N 33	NE 32	N 32	NE 30	N 30	NE 27	N 25	NE 23	NE 23	NE 22	NE 20
*3	E 17	E 16	E 13	SE 12	E 14	SE 16	E 17	SE 13	E 14	E 14	E 14	E 15	E 15
*4	E 11	E 10	E 10	NE 10	N 8	NE 5	N 5	NE 4	N 5	E 6	E 6	E 6	E 7
*5	NE 11	NE 11	NE 10	NE 8	NE 8	NE 9	NE 11	NE 10	NE 8	E 9	E 9	E 10	E 12
*6	SE 17	SE 17	SE 17	SE 19	SE 18	SE 18	SE 18	SE 17	SE 17	SE 16	SE 17	SE 16	SE 12
*7	SE 16	SE 17	SE 17	SE 14	SE 13	SE 15	SE 14	SE 14	SE 13	SW 11	S 14	SW 15	S 10
8	*SW* 18	*SW* 14	*SW* 11	*SW* *10*	SW 8	SW 7	SW 11	SW 8	SW 5	SW 3	SW 2	DI 1	SW 2
9	E 13	E 13	E 14	E 13	E 11	E 12	E 10	E 9	E 7	S 6	SE 4	S 5	S 3
10	E *5*	E 3	N 4	NE 7	E 13	W 11	W 10	W 7	W 3	W 2	SE 3	SE 4	SE 4
11	S 4	SE 5	S 6	S 6	S 3	S 4	S 4	SW 4	SW 5	SW 6	SW 6	SW 7	SW 5
12	E 13	E 12	E 10	E 10	SE 6	S 6	S 7	SW 8	SW 7	SW 15	S 20	SW 21	SW 19
13	E 5	E 10	E 9	E 7	SE 7	SE 5	SE 6	SE 10	SE 6	S 5	S 3	S 3	S 3
14	SW 3	S 3	S 2	S 4	S 3	S 3	E 6	E 4	E 3	E 4	E 6	E 10	E 10
15	E 11	E 11	E 9	E 8	E 9	E 8	E 7	E 7	E 8	E 11	E 11	E 13	E 13
16	E 3	E 2	E 4	SE 7	E 6	E 3	E 3	S 5	S 5	S 8	SW 10	S 11	S 13
17	SW 11	SW 8	SW 3	DI 1	E 4	E 4	SE 7	SE 8	*SE* *10*	*SE* *13*	*SE* *16*	SE 20	*E* *22*
18	E 26	E 23	E 18	E 22	E 22	E 26	E 31	E 34	E 30	E 26	E 23	E 23	E 22
19	E 17	SE 19	SE 17	E 17	SE 17	E 18	E 17	E 16	E 17	E 15	E 16	E 14	E 14
20	E 10	E 8	E 10	SE 10	SE 8	SE 8	E 6	SE 8	SE 7	SE 8	SE 8	SE 11	S 4
21	SW 5	SW 2	W 2	DI 1	W 2	S 2	W 6	W 11	W 9	W 8	W 5	W 5	W 4
22	SW 2	DI 1	SW 2	SE 3	SE 3	E 2	E 4	E 3	E 4	E 4	E 3	E 4	E 4
23	E 5	E 5	E 5	E 4	E 4	E 4	E 4	E 4	N 5	N 5	N 5	N 6	N 6
24	E 17	E 17	E 18	E 21	E 23	E 23	E 25	E 26	E 27	E 31	E 30	E 29	E 28
25	S 6	S 7	S 7	S 8	S 15	SW 19	S 25	SW 26	SW 28	SW 27	SW 26	SW 28	SW 26
26	S 12	S 9	S 7	S 7	SW 8	SW 7	SW 7	SW 6	SW 11	SW 15	SW 18	S 19	S 16
27	S 7	S 9	S 8	S 6	SE 11	SE 13	SE 13	SE 12	SE 15	SE 10	SE 10	S 6	S 4
28	SW 18	SW 16	SW 15	SW 14	SW 11	SW 9	SW 8	SW 11	SW 12	W 9	SW 6	W 3	W 5
29	E 9	E 12	E 15	E 16	E 15	E 14	E 14	E 14	E 12	E 11	E 12	E 15	E 17
30	S 5	S 5	E 2	S 3	S 2	S 2	S 3	DI 1	SW 2	E 3	SE 3	S 3	S 3
Prevailing direction	E	E	E	E	E	E	E	E	E	E	E	E	E
Mean speed	11.9	11.4	10.6	10.7	10.9	11.1	11.9	11.7	11.5	11.7	11.9	12.5	12.1

GMT	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	Prev. dir.	Mean speed	Max. wind
Date														
*1	NE 33	NE 34	NE 34	NE 36	NE 35	NE 38	NE 40	NE 43	NE 46	N 47	NE 44	NE	31.3	N 47
*2	NE 19	NE 17	SE 16	E 13	SE 11	E 13	SE 12	E 10	E 9	E 13	E 15	NE	21.8	N 40
*3	E 15	E 16	E 15	E 15	E 16	E 13	E 14	E 11	E 10	E 9	E 9	E	13.9	E 17
*4	E 9	E 9	N 12	N 11	N 12	N 12	N 12	NE 15	NE 13	NE 12	NE 12	E	9.2	NE 15
*5	E 14	E 13	SE 13	E 13	SE 14	E 14	SE 15	E 15	SE 16	SE 16	SE 16	E	11.9	SE 16
*6	SE 14	SE 14	SE 17	E 17	SE 16	E 15	SE 15	E 16	SE 17	SE 16	SE 14	SE	16.2	SE 18
*7	SW 19	S 18	SW 21	SW 23	SW 25	SW 25	SW 23	SW 23	SW 22	SW 21	SW 17	SW	17.9	SW 26
8	SE 4	SE 7	E 9	E 9	E 10	E 8	E 10	E 10	E 12	E 14	E 12	SW	8.5	SW 19
9	S 4	S *6*	S *9*	S *12*	S 15	S *13*	SW *12*	SW *8*	SW *9*	S 7	S 6	S	9.2	S 16
10	SE 4	SE 6	SE 5	SE 8	SE 10	SE 11	S 13	SE 10	S 6	S 4	S 3	SE	6.5	SE 20
11	SW 5	SW 9	SW 5	W 6	W 5	S 4	W 2	S 2	E 5	E 9	E 10	SW	5.3	E 11
12	S 18	S 16	S 11	S 7	S 4	S 4	E 4	E 5	E 4	E 3	E 3	S	9.7	SW 25
13	S 4	S 5	S 7	S 7	S 6	S 6	S 4	S 3	SE 3	SW 3	SW 4	S	5.4	E 11
14	E 9	E 9	E 10	E 10	E 11	E 10	E 7	E 4	E 5	E 8	E 10	E	6.4	E 12
15	E 12	E 11	E 11	E 12	E 10	E 11	E 11	E 10	E 8	E 6	E 5	E	9.7	E 18
16	S 14	SW 14	SW 15	SW 18	SW 20	SW 20	SW 19	SW 18	SW 16	SW 14	SW 12	SW	10.8	SW 23
17	*E* *15*	*E* *24*	*E* *28*	*E* *27*	E 29	*E* *28*	*E* *27*	E 25	E 28	E 26	E 29	E	17.6	E 30
18	E 24	E 22	E 21	E 21	E 22	E 19	E 25	E 21	E 19	E 17	E 17	E	22.9	E 36
19	E 16	E 17	E 17	F 17	E 14	SE 15	E 12	E 11	E 10	E 10	E 12	E	15.2	SE 22
20	S 4	S 4	S 5	S 4	S 6	SW 7	SW 9	SW 6	SW 6	SW 7	SW 7	SE	7.1	SE 12
21	W 4	SW 3	SW 3	SW 2	SW 3	SW 2	SW 2	SW 2	SW 2	SW 2	SW 2	SW	3.7	W 12
22	E 4	E 5	E 4	E 5	E 6	E 4	E 5	E 6	E 4	E 5	E 4	E	3.8	E 10
23	N 7	E 6	E 6	E 7	E 8	E 7	E 8	E 8	E 7	E 9	E 16	E	6.3	E 17
24	E 31	E 29	E 27	SE 23	SE 22	SE 23	SE 25	SE 20	SE 14	SE 8	SE 8	E	22.7	E 33
25	SW 21	SW 23	SW 26	SW 23	S 25	S 26	S 26	S 22	S 17	S 13	S 13	S	20.1	SW 32
26	S 13	S 17	S 17	S 19	S 19	S 17	S 9	SE 16	SE 15	S 10	S 10	S	12.7	S 22
27	S 6	S 7	SW 9	SW 11	S 5	SW 7	SW 6	SW 9	SW 15	SW 17	SW 15	S	9.6	SW 17
28	W 4	DI 1	DI 1	E 4	E 3	E 3	E 2	DI 1	E 4	E 6	E 6	SW	7.5	SW 20
29	E 16	E 13	E 13	E 11	E 10	E 9	E 6	S 6	S 8	SE 9	SE 9	E	11.9	E 19
30	S 5	SW 4	S 3	S 4	S 3	S 3	S 2	S 4	S 2	S 3	S 4	S	3.1	S 7
Prevailing direction	E	E	E	E	E	E	E	E	E	E	E	E		N 47
Mean speed	12.6	12.6	13.0	13.2	13.2	12.9	12.6	12.0	11.7	11.5	11.5		11.9	

*Directions for first 7 days and velocities for first two-and-one-third days generally interpolated.
Other interpolations indicated by italics.

TABLE 23.—*Little America III, wind direction and speed hourly values*—Continued

MAY 1940

GMT	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13
Date													
1	S 2	S 2	S 2	S 2	S 2	S 1	S 2	S 3	W 2	W 3	DI 1	S 2	S 2
2	S 4	W 2	W 3	W 3	S 2	DI 1	S 2	S 2	W 2	DI 1	S 2	DI 1	S 2
3	E 7	E 7	S 5	S 4	S 3	S 6	S 7	S 5	S 5	S 3	S 7	S 5	S 4
4	DI 1	S 2	E 2	S 2	S 7	S 2	S 4	S 5	S 6	S 6	S 10	S 9	S 9
5	E 16	S 16	S 10	S 9	S 6	S 9	S 10	S 7	S 5	S 6	S 7	S 7	W 7
6	S 4	S 3	E 5	S 4	S 3	S 4	S 5	S 6	S 5	S 5	S 4	S 4	S 7
7	S 2	S 2	S 2	S 2	S 2	S 2	S 2	S 3	S 5	S 4	S 3	S 5	S 6
8	S 2	E 16	E 26	S 26	S 26	S 1	S 1	S 7	S 6	S 5	S 4	S 17	E 13
9	E 30	S 3	S 7	S 6	S 1	S 1	S 1	S 6	S 4	S 4	S 17	S 20	S 19
10	SE 14	SE 2	S 26	S 7	S 25	S 26	S 2	S 3	S 14	S 24	S 24	S 6	S 6
11	S 4	S 4	S 4	S 2	S 2	S 1	S 2	S 12	S 24	S 4	S 4	E 7	E 9
12	SE 14	E 15	E 13	S 4	S 13	S 1	S 2	S 23	S 4	S 4	E 7	E 8	E 11
13	E 7	S 7	S 7	S 4	S 4	S 1	S 1	S 9	S 6	S 6	E 8	E 6	S 4
14	S 6	S 5	S 4	S 4	S 5	S 1	S 1	S 5	S 9	S 6	S 5	E 5	S 14
15	S 8	S 7	S 11	S 21	S 13	S 2	S 1	S 10	S 6	S 7	S 4	S 4	S 4
16	S 8	S 6	S 21	S 15	S 22	S 3	S 1	S 6	S 4	S 4	S 6	S 40	S 11
17	S 22	S 20	S 25	S 16	S 17	S 4	S 1	S 4	S 4	S 3	S 5	S 18	S 42
18	E 29	E 27	S 15	S 13	S 13	S 5	S 1	S 4	S 4	S 12	S 6	S 13	S 21
19	E 23	E 20	E 16	S 8	S 8	S 4	S 1	S 12	S 4	S 6	S 6	S 4	S 18
20	W 7	NW 7	W 8	S 6	S 6	S 3	S 1	S 30	S 4	S 6	S 38	S 36	S 3
21	NE 12	NE 11	E 12	S 8	S 2	S 1	S 1	S 26	S 4	S 6	S 26	S 23	E 11
22	S 8	S 8	S 1	S 12	S 6	S 1	S 1	S 23	S 4	S 6	S 12	S 8	S 3
23	SE 2	SE 2	E 4	S 1	S 2	S 1	S 1	S 8	S 4	S 6	S 10	S 8	E 9
24	SE 2	E 3	S 5	S 4	S 6	S 1	S 1	S 7	S 4	S 6	E 38	E 36	E 7
25	SW 5	S 7	S 21	S 23	S 27	S 1	S 1	S 4	S 4	S 6	E 26	E 23	E 9
26	E 20	E 20	E 34	S 3	S 31	S 1	S 1	S 4	S 4	S 6	E 12	E 8	E 32
27	E 29	E 33	E 13	S 23	S 12	S 1	S 1	S 4	S 4	S 6	E 10	E 8	E 24
28	S 13	E 18	E 19	S 34	S 27	S 1	S 1	S 4	S 4	S 6	E 32	E 30	E 6
29	E 19	E 11	E 10	S 13	S 12	S 1	S 1	S 4	S 4	S 6	E 25	E 26	W 6
30	SW 9	E 16	E 15	S 18	S 18	S 1	S 1	S 4	S 4	S 6	E 9	E 13	SW 20
31	E 18			S 7	S 17	S 1	S 1	S 4	S 4	S 6	E 17	E 8	E 13
													E 11
Prevailing direction	S	E	S	S	S	S	S	S	S	S	S	S	E
Mean speed	11.1	10.7	10.5	10.2	10.5	10.5	10.5	10.4	10.6	11.1	10.5	10.8	11.5

GMT	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Prev. dir.	Mean speed	Max. wind
Date														
1	S 3	S 2	S 2	S 4	S 6	S 6	S 6	S 4	S 5	S 4	S 5	S	3.1	S 8
2	SE 2	DI 1	S 4	E 3	E 5	E 4	E 6	E 7	E 1	E 9	E 7	E	3.4	E 10
3	SW 3	W 4	E 12	W 4	S 3	W 2	W 2	W 2	E 15	E 2	S 2	SE	4.1	E 8
4	SE 11	S 1	E 4	E 12	E 12	S 11	S 6	E 14	S 1	S 17	S 18	S	8.6	E 18
5	S 8	S 7	S 3	S 7	S 7	E 6	S 5	S 3	S 3	S 6	S 5	S	7.5	E 17
6	S 5	E 4	S 10	E 7	S 5	S 12	S 7	S 4	S 4	S 4	S 4	S	4.6	E 9
7	S 8	W 10	E 6	S 7	S 9	S 7	S 4	S 4	S 4	S 4	S 2	S	4.5	E 10
8	E 15	E 7	E 18	E 5	S 4	E 2	S 4	S 14	S 14	S 4	S 2	S	9.9	E 29
9	E 18	S 17	S 5	S 20	E 18	S 4	S 13	E 3	E 22	E 2	S 26	S	20.8	E 28
10	S 6	S 5	S 5	E 5	S 18	S 6	S 15	S 4	S 16	S 24	S 11	S	6.2	SE 16
11	E 9	E 9	E 14	E 14	E 14	E 14	E 16	E 7	E 5	E 16	E 14	E	9.0	E 17
12	SE 9	E 11	S 8	S 7	S 6	S 14	S 16	S 2	S 1	S 8	S 6	E	9.4	E 17
13	E 3	E 5	S 4	S 4	E 4	E 7	S 4	S 2	E 17	E 3	E 14	E	4.8	S 9
14	S 15	S 14	S 9	S 7	S 6	S 2	S 3	S 6	S 12	S 4	S 6	S	6.4	S 21
15	S 7	S 6	S 5	S 6	S 4	S 4	S 3	S 2	S 4	S 4	S 3	S	5.1	SE 10
16	SE 11	SE 12	SE 15	S 12	S 6	S 6	S 7	S 6	S 7	S 7	S 7	SE	11.8	SE 20
17	SE 43	SE 44	SE 44	S 43	S 6	S 10	S 12	S 16	S 6	S 18	S 19	SE	34.1	SE 45
18	E 19	E 19	E 19	E 17	S 4	S 41	S 37	S 35	S 17	S 34	S 29	SE	21.6	E 32
19	SW 17	SW 17	E 17	W 17	E 5	S 16	S 17	S 19	S 17	S 18	S 21	E	13.4	E 25
20	N 5	NW 9	W 16	NW 15	W 4	S 17	S 17	S 14	S 18	S 19	S 11	E	11.0	NW 22
21	E 9	SE 9	SE 8	S 7	S 9	S 8	S 9	S 9	S 10	S 8	S 9	E	9.3	NE 16
22	SW 4	SW 5	SW 5	SW 6	S 5	S 9	S 4	S 3	S 3	S 4	S 3	SW	5.8	S 14
23	N 8	N 11	N 8	N 12	S 8	S 10	S 9	S 9	S 9	S 4	S 2	N	6.3	S 13
24	SE 8	S 4	S 7	S 9	E 12	S 17	S 8	S 8	S 17	S 8	S 2	S	6.1	S 12
25	SE 10	E 17	E 17	E 14	S 14	S 35	S 19	S 19	S 32	S 17	S 8	E	10.8	S 20
26	E 32	E 34	E 36	E 34	S 23	S 19	S 34	S 33	S 8	S 17	S 18	E	30.6	E 37
27	SE 22	SE 23	E 22	S 7	S 7	S 8	S 18	S 16	S 15	S 12	S 20	E	23.5	SE 34
28	W 4	S 3	E 7	E 7	S 18	S 13	S 15	S 12	S 12	S 12	S 12	E	11.5	E 21
29	SW 18	SW 14	E 21	E 17	S 17	S 17	S 17	S 11	S 18	S 18	S 18	E	15.6	SW 24
30	E 17	E 17	E 17	S 5	E 5	S 4	S 4	S 19	S 5	S 5	S 4	E	12.6	E 21
31	E 5	E 3	E DI 1	E 1	S 4	S 4	S 4	S 4	S 4	S 4	S 4	S	9.5	E 19
														SE 45
Prevailing direction	E	E	E	S	S	S	S	S	S	S	S	S	11.0	
Mean speed	11.4	11.4	11.8	11.8	11.5	11.2	11.2	11.1	11.5	11.2	10.5			

Italic values obtained by interpolation.

TABLE 23.—*Little America III, wind direction and speed hourly values*—Continued

JUNE 1940

GMT	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13
Date													
1	SW 5	SW 5	SW 3	SW 4	SW 3	SW 5	SW 6	SW 6	SW 7	SW 5	SW 8	SW 10	SW 9
2	NE 3	N 6	N 4	N 7	N 6	N 5	N 10	N 10	N 7	N 9	N 9	N 7	N 8
3	E 16	E 16	E 14	E 11	E 9	E 6	SE 5	S 7	S 7	S 5	S 6	SW 4	SW 4
4	DI 1	DI 1	SW 3	DI 1	SE 3	E 4	N 6	N 8	N 14	N 17	N 17	N 17	N 16
5	NE 19	NE 19	NE 17	NE 14	E 21	E 20	E 19	E 17	E 15	E 14	E 13	E 13	SE 15
6	S 3	S 4	S 6	S 7	SW 10	SW 10	SW 11	S 10	S 12	S 12	S 11	S 11	S 10
7	S 3	SW 5	SW 3	SW 3	SW 4	SW 4	S 3	S 3	SE 5	E 6	E 5	E 5	E 6
8	E 26	E 27	E 27	E 28	E 32	E 32	E 34	E 34	E 34	E 36	E 36	E 36	E 36
9	E 26	E 25	E 26	E 26	E 28	E 26	E 26	E 26	E 25	E 25	E 20	E 17	E 16
10	NE 9	NE 8	NE 7	W 16	W 13	W 14	W 13	W 8	W 3	NE 3	NE 6	E 7	NE 8
11	SE 5	E 5	E 7	E 10	E 7	E 8	E 10	E 14	E 16	E 21	E 26	E 28	E 31
12	E 36	SE 38	E 37	SE 36	E 35	E 35	E 34	E 33	E 31	E 26	E 24	E 23	E 23
13	W 13	W 8	W 10	W 8	W 5	W 6	W 6	W 5	W 4	W 5	W 3	W 4	W 4
14	E 34	E 34	SE 36	SE 37	SE 39	SE 39	SE 41	SE 40	E 39	E 38	SE 38	SE 37	E 36
15	SE 26	E 26	E 26	E 27	E 25	E 25	SE 24	E 23	SE 22	SE 22	SE 22	SE 19	SE 15
16	S 12	S 10	S 11	S 15	S 16	S 14	S 16	S 17	S 17	S 17	S 13	S 17	S 17
17	S 16	S 15	S 16	S 16	S 16	S 14	S 15	S 13	S 11	S 11	S 12	S 14	S 13
18	SW 5	SW 5	SW 8	S 6	S 5	S 2	SW 5	SW 3	SW 6	S 4	S 3	S 3	SW 4
19	S 5	S 5	S 4	S 4	S 4	S 4	S 4	S 5	S 4	S 4	S 4	SW 6	SW 6
20	SW 19	SW 19	SW 16	SW 13	SW 10	SW 8	SW 8	SW 13	SW 14	SW 11	SW 7	SW 6	SW 5
21	SE 9	SE 11	E 16	E 18	E 21	E 22	E 25	E 25	E 25	E 25	E 22	E 22	E 20
22	E 17	E 17	E 17	E 19	E 18	E 17	E 17	E 18	E 18	E 24	E 24	E 20	E 16
23	NE 17	NE 18	NE 10	E 12	E 16	E 15	NE 18	NE 17	E 19	E 20	E 19	E 17	E 19
24	E 16	E 16	E 13	E 13	E 13	E 11	E 10	SE 13	E 13	E 15	E 15	E 16	E 16
25	NE 14	NE 17	NE 18	NE 19	NE 21	NE 26	NE 25	NE 26	NE 20	E 20	E 23	E 25	E 25
26	E 24	E 24	SE 26	SE 26	SE 28	SE 28	SE 29	SE 27	SE 26	SE 28	SE 26	E 27	E 28
27	E 15	E 15	E 17	E 17	E 11	NE 17	N 17	N 19	NE 13	NE 11	NE 13	NE 12	NE 12
28	SE 28	SE 29	SE 26	SE 25	SE 20	E 19	E 17	E 17	SE 10	S 7	SW 9	SW 9	SW 9
29	W 9	W 11	W 12	W 9	W 5	W 3	W 4	S 2	S 2	S 3	SE 6	E 7	E 6
30	S 14	S 15	S 13	S 11	S 6	S 5	SW 8	SW 7	SW 9	SW 7	SW 7	SW 7	SW 8
Prevailing direction	E	E	E	E	E	E	E	E	E	E	E	E	E
Mean speed	14.8	15.1	15.0	15.3	15.0	14.8	15.5	15.5	14.9	15.0	14.9	14.9	14.7

GMT	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Prev. dir.	Mean speed	Max. wind
Date														
1	SW 9	SW 9	SW 5	W 5	W 6	W 5	SW 3	SW 3	DI 1	N 2	N 4	SW	5.3	SW 12
2	N 10	N 6	N 7	N 6	N 7	N 7	N 9	E 14	E 14	E 14	E 16	N	8.4	E 17
3	W 6	W 5	SW 2	SW 2	DI 1	SW 2	S 4	S 5	S 5	S 3	S 4	S	6.2	E 17
4	N 19	N 18	N 18	NE 18	NE 21	NE 21	NE 20	NE 17	NE 19	NE 15	NE 17	N	12.9	NE 22
5	SE 17	SE 15	SE 13	SE 10	SE 6	S 5	S 6	S 7	S 7	S 6	S 4	E	13.0	E 23
6	SW 9	SW 8	S 7	SW 11	SW 10	SW 8	SW 6	SW 5	SW 5	SW 6	SW 4	SW	8.2	S 15
7	E 9	E 13	E 15	E 17	E 17	E 17	E 18	E 21	E 22	E 23	E 24	E	10.4	E 26
8	E 35	SE 35	SE 36	SE 35	SE 34	SE 34	SE 35	SE 34	SE 34	E 32	E 27	E	32.9	E 38
9	NE 15	NE 16	NE 19	NE 20	NE 22	NE 20	NE 19	NE 15	N 9	N 9	NE 9	E	20.2	E 30
10	N 12	W 14	W 13	W 11	W 10	W 7	W 5	W 3	W 2	W 2	S 4	W	8.2	W 17
11	E 33	E 34	E 34	E 36	E 38	E 39	SE 39	SE 38	SE 37	SE 37	E 37	E	24.6	SE 44
12	E 20	E 18	E 17	E 14	E 10	NE 6	NE 4	NW 6	NW 8	W 9	W 14	E	22.4	SE 42
13	SW 4	S 5	S 4	S 4	SE 6	E 13	E 18	E 23	E 25	E 27	E 31	W	10.0	E 36
14	E 34	SE 34	SE 34	SE 33	SE 32	SE 32	E 30	E 30	E 29	E 28	SE 27	SE	34.6	SE 46
15	S 8	S 10	S 9	S 7	S 10	S 9	S 11	S 14	S 16	S 14	S 13	S	17.6	E 29
16	S 19	S 18	S 18	S 16	S 15	S 19	S 17	S 16	S 12	S 15	S 14	S	15.4	S 22
17	S 12	S 10	S 10	S 8	S 7	S 8	S 10	S 11	S 6	S 7	S 3	S	11.4	S 17
18	SW 3	S 3	S 4	S 2	S 3	S 4	S 3	S 3	S 4	S 4	S 4	S	4.0	S 9
19	S 9	S 8	S 10	S 10	S 5	S 5	S 11	S 8	S 9	SW 18	SW 20	S	7.2	SW 23
20	SW 6	W 5	SW 4	S 3	S 3	S 3	S 4	S 5	S 4	SE 6	SE 4	SW	8.2	SW 21
21	E 20	E 21	E 20	E 19	E 20	E 21	E 18	E 17	E 17	E 16	E 13	E	19.3	E 26
22	E 13	E 9	SE 8	E 9	E 10	E 10	E 15	E 15	NE 16	NE 17	NE 17	E	15.9	E 20
23	SE 22	SE 26	E 23	E 19	E 19	E 18	E 16	E 14	E 16	E 17	E 16	E	17.6	SE 26
24	E 15	E 15	E 15	E 13	E 12	E 16	NE 17	E 14	E 15	E 14	E 12	E	14.0	NE 21
25	E 24	E 26	E 26	E 28	E 26	E 26	E 24	E 24	E 23	E 23	E 23	E	23.0	NE 30
26	E 25	E 21	E 21	E 21	E 19	E 17	E 17	E 15	E 17	E 15	E 17	E	23.0	E 26
27	E 10	E 13	E 19	E 19	SE 26	SE 26	SE 30	SE 32	SE 31	SE 30	SE 26	E	18.8	SE 35
28	SW 13	SW 13	SW 15	SW 14	SW 14	W 17	W 17	W 16	W 16	W 14	W 12	SW	16.1	SE 34
29	E 8	SE 9	SE 12	E 15	E 17	E 20	SE 24	SE 24	SE 24	SE 17	S 14	SE	11.0	SE 27
30	S 9	S 9	S 5	S 6	S 7	S 5	S 6	S 6	S 9	S 7	S 7	S	6.0	S 17
Prevailing direction	E	E	E	E	E	E	S	E	S	E	E	E		SE 44
Mean speed	14.9	14.9	14.8	14.4	14.4	14.7	15.2	15.2	15.1	14.9	14.6		14.9	

TABLE 23.—*Little America III, wind direction and speed hourly values*—Continued

JULY 1940

GMT	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13
Date													
1	S 9	S 9	SE 8	S 8	S 11	S 10	S 9	S 8	S 10	S 9	S 8	S 12	S 12
2	W 10	W 6	SW 6	SE 5	E 10	E 9	NW 15	NW 12	NW 14	NW 15	NW 15	NW 15	NW 13
3	E 29	E 34	E 37	E 38	E 37	E 34	E 33	E 31	E 31	E 28	E 28	NE 31	NE 26
4	NE 15	NE 11	E 7	E 8	E 8	NE 12	E 19	E 17	E 16	E 17	E 18	E 19	E 16
5	N 11	N 11	N 7	N 7	N 6	N 5	N 6	N 5	N 6	N 4	N 3	NE 4	N 3
6	E 9	E 9	E 9	E 9	E 8	SE 8	SE 8	SE 5	S 6	S 7	SE 7	S 7	S 7
7	S 5	SE 9	SE 8	S 7	S 6	S 6	S 6	S 7	S 8	S 9	S 9	SW 8	S 10
8	SW 13	SW 11	SW 13	SW 12	SW 10	W 10	SW 9	SW 9	SW 8	SW 8	S 7	SW 5	S 6
9	N 13	N 16	N 16	N 17	N 17	N 17	N 17	N 17	N 17	N 15	N 14	N 17	N 14
10	SW 13	SW 13	SW 14	SW 10	SW 9	W 9	SW 11	SW 8	SW 12	SW 12	SW 9	SW 11	SW 9
11	E 7	E 10	E 12	E 13	E 15	E 17	E 19	E 19	E 22	E 24	E 26	E 26	E 26
12	S 5	SW 7	SW 9	SW 8	SW 6	SW 7	SW 5	S 5	S 8	S 8	S 6	S 5	S 4
13	E 10	E 7	E 9	E 10	E 8	E 8	E 11	E 11	E 8	E 10	E 8	E 8	E 7
14	E 7	E 7	E 8	NE 6	W 7	W 4	W 4	W 3	S 3	S 5	S 4	S 4	S 4
15	E 12	E 12	E 13	E 17	E 17	E 17	E 17	E 17	E 15	SE 10	SE 6	S 7	S 8
16	SW 9	S 6	S 6	SW 14	SW 13	SW 10	S 6	S 3	DI 1	S 3	SW 3	S 2	S 2
17	E 19	SE 22	SE 21	SE 21	SE 18	SE 17	S 8	S 5	S 7	S 8	S 5	S 5	S 6
18	S 5	S 3	S 5	S 6	S 6	S 4	S 4	S 4	S 5	S 4	S 3	S 5	S 5
19	S 5	S 4	S 5	S 7	S 5	S 6	S 5	S 6	S 5	S 4	S 5	S 4	S 4
20	S 10	S 9	S 4	S 8	S 8	S 8	S 6	SE 3	SE 4	S 6	S 6	S 5	S 6
21	SW 8	SW 10	SW 11	SW 10	SW 9	SW 5	W 5	SW 4	W 4	SW 5	SW 2	S 3	S 4
22	E 7	E 9	E 10	E 11	E 11	E 12	E 12	E 12	E 10	E 10	E 8	NE 6	NE 9
23	SE 7	SE 4	SE 5	S 5	SW 7	SW 7	SW 6	S 7	S 5	S 5	W 6	W 3	W 3
24	NW 8	N 7	N 9	NW 10	NW 11	NW 10	NW 7	N 6	N 5	N 5	E 5	E 6	E 5
25	SE 10	SE 11	SE 10	SE 10	SE 12	SE 14	SE 9	SE 6	SE 11	SE 16	SE 18	SE 24	SE 26
26	E 33	E 32	E 30	E 28	E 27	SE 23	SE 23	SE 21	SE 19	SE 14	S 11	SE 15	S 10
27	S 23	S 22	S 19	S 20	S 21	S 20	S 19	S 16	S 13	S 11	S 13	SE 22	E 26
28	E 26	E 25	E 22	E 23	E 23	E 22	E 22	E 24	E 24	E 23	E 25	E 26	E 25
29	E 16	E 15	E 13	E 14	SE 11	SE 11	E 13	E 13	E 11	E 13	E 11	E 12	E 12
30	E 10	E 8	E 6	E 3	E 4	E 4	E 5	NE 5	E 6	E 8	E 9	E 9	E 8
31	E 22	E 20	SE 23	SE 25	SE 22	SE 23	E 25	SE 22	SE 16	SE 11	SE 9	S 10	S 12
Prevailing direction	E	E	E	E	E	E	E	S	S	S	S	S	S
Mean speed	12.4	12.2	11.9	12.6	12.4	11.9	11.7	10.7	10.6	10.5	10.0	10.8	10.6

GMT	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Prev. dir.	Mean speed	Max. wind
Date														
1	SW 11	SW 11	S 11	SW 11	SW 11	SW 13	SW 11	SW 12	SW 9	W 11	W 9	S	10.1	SW 14
2	NW 13	N 12	N 12	N 11	N 10	NE 9	E 9	E 14	E 16	E 21	E 21	NW	12.2	E 26
3	NE 27	NE 25	NE 22	NE 20	NE 19	NE 19	NE 19	NE 17	NE 19	NE 18	NE 16	NE	26.6	E 41
4	E 17	E 14	E 14	NE 13	NE 9	NE 5	N 3	N 4	N 5	NE 7	N 7	E	11.7	E 22
5	N 2	N 4	E 3	E 3	E 5	E 5	NE 6	NE 8	NE 6	E 7	E 7	N	5.6	N 13
6	S 9	S 9	S 8	S 8	S 6	S 7	S 10	S 8	S 5	SW 5	SW 4	S	7.4	S 13
7	S 9	SW 7	S 9	S 10	S 8	S 5	S 6	S 9	S 13	S 15	S 14	S	8.4	S 17
8	S 3	SW 5	S 3	SE 5	E 5	NE 6	E 6	NE 6	N 7	N 7	N 9	SW	7.6	SW 15
9	SW 10	SW 11	SW 10	SW 12	SW 9	W 11	SW 13	W 12	SW 14	SW 13	SW 13	N	14.0	N 19
10	SW 10	SW 6	S 7	S 6	S 6	S 5	S 4	S 4	SE 6	SE 5	E 7	SW	8.6	SW 17
11	E 27	E 26	SE 22	SE 22	SE 19	SE 17	SE 12	SE 5	S 2	SW 6	SW 7	E	16.7	E 31
12	S 5	S 4	S 4	S 4	S 5	S 5	S 5	SE 7	E 9	E 10	E 8	S	6.2	E 11
13	SE 5	SE 5	SE 4	E 6	SE 3	SE 4	SE 4	E 4	E 4	E 10	E 8	E	7.2	E 12
14	S 5	S 6	S 5	S 6	S 4	S 7	S 5	S 4	S 4	S 3	S 6	S	5.0	E 9
15	S 8	S 7	SW 9	SW 5	SW 8	S 10	SW 11	SW 12	S 10	S 10	S 7	E	11.0	E 20
16	S 2	NW 2	NW 2	E 4	E 3	E 6	E 10	E 11	E 16	E 16	E 15	S	6.9	E 17
17	S 8	S 9	S 7	S 6	S 8	S 6	S 8	S 7	S 6	S 6	S 5	S	10.0	SE 23
18	S 4	S 4	S 5	S 4	S 4	S 4	S 4	S 5	S 6	S 6	S 5	S	4.6	S 8
19	S 4	S 6	S 5	S 4	SE 4	SW 4	S 6	S 7	S 6	S 7	S 8	S	5.2	S 9
20	S 6	S 5	S 7	S 6	S 6	SE 10	SE 12	SE 7	S 6	S 4	S 8	S	6.7	S 11
21	E 6	E 8	E 7	E 9	E 6	E 8	E 6	E 6	E 8	E 8	E 11	E	6.8	SW 12
22	NE 11	NE 10	NE 7	E 10	E 10	E 8	E 9	E 13	E 12	E 11	E 8	E	9.8	E 14
23	SW 3	SW 3	E 5	E 5	E 6	N 5	N 8	N 8	NW 10	NW 9	NW 9	SW	4.1	NW 12
24	E 7	E 9	E 9	E 9	E 9	E 9	E 9	SE 8	SE 8	SE 8	SE 9	E	7.8	NW 12
25	SE 24	SE 21	SE 32	SE 33	SE 35	SE 34	SE 34	E 35	SE 35	E 36	E 34	SE	22.1	E 40
26	S 14	S 17	S 17	S 17	S 18	S 22	S 22	S 22	S 24	S 24	S 23	S	21.1	SE 38
27	E 29	E 30	E 31	E 32	E 28	E 32	E 30	E 29	E 28	E 27	E 24	E	23.5	E 34
28	E 21	E 25	E 25	E 25	E 23	E 19	E 19	E 17	SE 17	E 15	E 12	E	22.0	SE 29
29	E 11	E 13	E 13	E 12	E 12	E 14	E 12	E 12	E 11	E 12	E 11	E	12.4	E 17
30	NE 6	NE 6	E 7	E 9	E 14	E 13	E 14	E 16	E 17	E 18	E 16	E	9.2	E 20
31	S 11	S 11	S 14	S 18	S 20	S 18	SW 14	SW 19	SW 17	SW 20	SW 21	S	17.6	E 27
Prevailing direction	S	S	S	S	E	S	E	E	S	E	E	E		E 41
Mean speed	10.6	10.7	11.8	11.1	10.7	11.0	11.0	11.2	11.5	12.1	11.7	11.7	11.3	

TABLE 23.—*Little America III, wind direction and speed hourly values*—Continued

AUGUST 1940

GMT	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13
Date													
1	SW 22	SW 22	SW 25	SW 23	SW 20	SW 26	SW 17	S 16	SW 15	S 12	S 8	S 9	SW 11
2	N 2	W 3	NW 14	NW 12	NW 12	NW 12	NW 11	NW 9	N 8	N 10	N 9	W 16	W 11
3	SW 6	SW 6	SW 6	SW 7	SW 8	S 6	SW 8	W 6	W 5	S 3	S 3	S 3	SE 5
4	E 7	SE 4	SE 10	S 7	S 7	S 5	S 6	S 7	S 8	S 9	SW 7	SW 8	SW 10
5	S 5	S 7	S 5	S 5	SE 6	S 4	W 7	W 7	S 5	SW 6	S 8	SW 9	SW 7
6	S 7	S 7	S 10	S 8	S 8	S 4	S 7	S 7	S 5	S 7	S 6	S 7	*S* 7
7	*N* 14	*N* 14	*N* 14	*N* 15	*N* 13	N 4	N 11	NE 10	E 10	E 11	E 10	E 10	E 10
8	N 16	N 16	N 17	N 16	N 17	N 17	N 17	N 17	N 16	NE 13	NE 12	E 12	E 13
9	SW 7	SW 7	SW 10	SW 15	S 15	SW 12	S 13	S 10	S 11	S 10	S 7	S 4	S 3
10	E 19	E 18	E 17	E 19	E 20	E 21	SE 19	SE 11	S 9	SE 17	SE 31	SE 32	E 34
11	E 22	E 22	E 17	E 19	E 19	E 19	E 23	E 17	E 17	E 20	E 17	E 13	E 13
12	E 11	SE 6	S 7	S 6	S 4	S 5	W 8	SW 10	SW 11	SW 12	W 15	W 17	W 16
13	S 5	S 5	S 5	SW 7	W 5	W 6	W 4	W 5	DI 1	W 3	N 5	N 8	N 14
14	S 6	SE 6	E 11	E 14	E 15	E 17	E 18	SE 17	SE 15	SE 16	SE 16	SE 14	SE 13
15	SW 6	SW 5	S 4	S 5	S 3	S 3	E 5	SE 4	E 3	E 7	E 7	E 7	E 10
16	E 14	E 14	E 13	E 12	E 14	E 13	E 14	E 13	E 14	E 12	E 13	E 13	E 12
17	E 7	E 6	NE 7	NE 7	NE 7	NE 7	NE 7	NE 7	NE 5	E 6	E 6	E 7	E 7
18	E 9	E 9	E 10	E 10	SE 10	SE 9	SE 7	S 5	S 6	S 11	S 10	S 8	S 11
19	E 17	SE 17	E 18	E 17	E 17	SE 21	SE 17	SE 12	SE 10	E 7	NE 5	S 6	S 4
20	NW 25	NW 28	NW 32	NW 27	N 25	N 24	N 23	N 24	N 21	N 17	N 17	N 18	NE 16
21	SE 24	SE 16	SE 19	SE 30	SE 29	SE 30	SE 28	SE 18	SE 22	E 30	E 32	SE 26	SE 25
22	S 26	S 26	SW 22	SW 23	SW 24	SW 26	SW 25	SW 23	SW 22	SW 23	SW *14*	SW *15*	SW *10*
23	E 14	E 17	E 18	E 19	E 23	E 26	E 34	SE 37	E 38	E 40	SE 41	SE 40	SE 40
24	E 23	E 24	E 25	E 26	E 29	E 28	E 27	E 27	E 26	E 25	E 23	E 18	SE 17
25	S 23	S 23	S 24	S 21	S 25	S 27	SW 17	SW 24	SW 26	SW 24	SW 25	SW 18	SW 20
26	SW *12*	SW 13	SW 9	SW 9	W 9	W 9	SW 9	SW 9	SW 9	SW 8	SW 9	SW 9	SW 7
27	SW 9	W 5	W 5	W 3	E 3	E 3	W 4	SW 10	SW 16	SW 17	SW 14	SW 15	SW 16
28	E 4	NE 5	N 4	N 7	N 7	N 5	N 2	E 5	E 6	E 8	E 9	E 8	E 7
29	S 14	S 15	S 14	S 14	SW 10	SW 9	SW 9	SW 8	S 9	SW 12	SW 12	S 11	S 11
30	S 5	S 3	S 5	S 6	S 4	S 4	S 4	S 3	S 3	S 2	S 4	S 2	S 3
31	S 9	S 7	S 6	S 9	S 8	S 6	S 8	S 5	S 6	S 4	S 6	SW 6	SW 5
Prevailing direction	E	S	S	S	S	S	SW	S	S	E	S	S	SW
Mean speed	12.6	12.1	13.0	13.5	13.4	13.2	13.2	12.4	12.2	13.0	12.9	12.5	12.6

GMT	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Prev. dir.	Mean speed	Max. wind
Date														
1	SW 12	SW 15	SW 11	SW 17	SW 9	W 5	W 4	W 4	NW 5	N 5	N 4	SW	13.2	SW 25
2	W 5	W 9	SW 8	SW 8	SW 6	SW 7	SW 6	SW 5	SW 5	SW 6	SW 4	SW	8.2	W 19
3	SE 5	SE 5	E 7	E 9	E 9	E 11	E 9	E 10	E 8	E 8	E 8	E	6.7	E 13
4	SW 9	SW 11	S 9	S 9	S 7	S 7	S 7	S 6	S 4	S 5	S 4	S	7.2	SW 14
5	W 6	SW 9	SW 9	S 8	SW 9	SW 9	SW 10	S 8	S 10	S 9	SW 9	S	7.4	SW 13
6	*S* 9	*S* 6	*S* 5	*S* 5	*S* 3	*S* 8	*SE* 4	*N* 12	*N* 13	*N* 10	*N* 8	S	7.2	N 15
7	E 11	E 12	E 12	E 14	E 11	NE 12	N 13	NE 11	N 12	N 13	N 15	N	11.8	N 17
8	E 13	E 13	E 10	E 15	E 18	E 22	E 17	SE 10	SE 7	SE 5	SE 6	E	14.0	E 23
9	S 3	S 4	S 4	S 4	S 4	SE 4	SE 6	SE 8	E 15	E 16	E 17	S	8.7	E 17
10	E 32	E 32	E 30	SE 19	SE 26	SE 27	E 26	E 23	E 25	E 23	E 20	E	22.9	E 34
11	E 12	E 13	E 12	E 10	E 10	SE 10	SE 11	E 17	E 15	E 11	SE 8	E	15.4	E 25
12	SW 17	SW 13	S 9	SW 8	SW 6	S 6	S 6	S 5	S 6	S 6	S 5	S	9.0	W 19
13	W 12	W 11	W 12	W 13	SW 13	SW 9	W 9	W 7	S 7	S 5	S 3	W	7.2	N 17
14	SE 8	S 7	S 7	S 6	S 6	S 7	S 8	S 8	S 6	S 7	SW 6	S	10.6	E 19
15	E 11	E 12	E 12	E 12	E 14	E 13	E 13	E 14	E 13	E 14	E 11	E	8.7	E 16
16	E 13	E 13	E 13	E 11	E 12	E 12	E 12	E 12	E 9	E 11	E 9	E	12.4	E 17
17	E 7	E 8	E 8	E 8	E 7	E 8	E 7	NE 5	E 6	E 8	E 8	E	6.9	E 9
18	S 8	S 9	S 14	S 13	S 10	S 13	S 9	S 10	S 14	E 22	E 18	S	10.6	E 22
19	S 3	NE 5	SW 5	SW 3	SW 4	NW 6	NW 4	NW 13	NW 21	NW 23	NW 21	NW	11.5	NW 24
20	NE 12	SE 8	SE 15	E 14	E 17	SE 17	SE 17	SE 26	SE 33	SE 30	SE 26	N	21.3	N 34
21	SE 20	SE 14	SE 14	SE 11	S 10	S 12	S 11	S 12	S 16	S 15	S 18	SE	20.1	E 34
22	SW *11*	SW *13*	W *8*	NW *8*	SW 7	SW 7	SW *4*	E *7*	E 7	E 9	E 11	SW	15.4	S 26
23	E 39	E 37	E 36	E 34	SE 32	SE 29	E 27	E 26	E 24	E 27	E 28	E	30.2	SE 42
24	SE 17	SE 14	S 9	S 11	S 11	S 12	S 13	S 17	S 18	S 16	S 16	E	19.7	E 29
25	SW 22	SW 22	SW 17	SW 14	SW 12	SW 10	SW 12	SW *10*	SW *10*	SW *8*	SW *10*	SW	18.5	S 29
26	SW 7	W 5	W 3	W 4	W 4	W 3	W 3	W 5	SW 5	S 5	S 5	SW	7.1	SW 15
27	SW 17	SW 15	SW 14	SW 14	SW 11	SW 10	SW 6	SW 5	SW 6	W 2	E 3	SW	9.3	SW 19
28	E 8	E 12	E *17*	E *16*	SE *15*	SE *15*	SE *13*	S *11*	S *12*	S 13	S 13	E	9.2	E 18
29	SW 9	SW 11	S 10	S 7	S 6	S 7	S 8	S 6	S 4	S 6	S 5	S	9.4	S 17
30	S 3	E 4	S 2	S 3	S 3	S 4	S 5	S 6	S 7	S 8	S 8	S	4.2	S 9
31	SW 6	SW 4	SW 4	SW 6	SW 6	SW 6	SW 6	SW 6	SW 3	SW 4	SW 4	SW	5.8	S 10
Prevailing direction	SW	E	E	E	SW	S	S	SW	S	S	E	S		SE 42
Mean speed	11.8	11.8	11.2	10.8	10.3	10.6	8.1	10.5	11.2	11.3	10.7		11.9	

Italic values obtained by interpolation.

TABLE 23.—*Little America III, wind direction and speed hourly values*—Continued

SEPTEMBER 1940

GMT	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13
Date													
1	SW 4	W 4	W 2	S 3	S 2	S 2	S 2	S 2	DI 1	SE 3	E 4	E 3	E 3D
2	E 15	E 14	E 15	E 14	E 13	E 12	E 13	SE 11	SE 11	SE 12	SE 11	SE 9	SE 7
3	S 7	S 6	S 6	S 3	S 5	S 6	S 9	S 8	S 9	S 6	S 9	S 5	S 7
4	SE 10	SE 11	SE 10	SE 12	SE 14	E 15	E 17	SE 14	S 10	S 9	SE 11	SE 15	SE 16
5	SW 7	SW 7	S 12	S 10	SW 8	SW 8	SW 8	W 7	SW 7	SW 6	SW 6	SW 4	SW 4
6	SE 5	SE 8	SE 7	SE 4	SE 5	S 4	S 4	S 5	S 5	S 7	S 7	SW 7	SW 7
7	SW 14	SW 14	SW 12	SW 12	W 10	W 10	SW 7	SW 8	SW 9	S 11	S 11	S 10	SW 12
8	SE 7	SE 9	SE 9	SE 6	SE 4	SE 5	S 4	S 7	S 5	S 3	S 5	S 4	S 4
9	SW 10	S 8	N 2	E 4	SW 6	SW 5	SW 6	S 5	SE 3	E 4	SE 4	SE 4	SE 4
10	SE 6	SE 9	SE 11	E 12	E 12	SE 5	S 8	SW 9	SW 9	SW 10	SW 13	SW 12	SW 12
11	SE 3	SE 5	E 5	E 8	E 8	E 9	E 11	E 11	E 11	E 10	E 10	E 10	E 9
12	SE 11	SE 13	E 15	E 15	E 17	E 16	E 18	E 19	E 18	E 21	E 20	E 20	E 21
13	E 19	E 18	E 19	E 19	E 20	E 19	E 19	E 19	E 19	E 20	E 20	E 18	E 18
14	SE 14	SE 12	SE 10	S 6	S 8	S 8	S 11	S 12	S 12	S 11	S 12	S 8	S 7
15	S 8	S 8	S 6	S 7	S 9	S 5	S 8	S 8	S 6	S 4	S 4	S 4	S 2
16	E 16	S 9	S 7	S 7	S 6	S 8	S 9	S 3	S 4	S 4	S 5	S 5	S 4
17	S 5	SW 8	SW 8	S 10	S 12	SW 11	SW 10	SW 8	SW 9	S 7	SE 7	S 5	S 4
18	S 7	S 8	S 7	S 8	S 6	S 5	S 6	SE 6	SE 5	SE 7	SE 3	SE 6	SE 5
19	E 13	E 12	E 12	E 12	E 11	E 10	E 11	E 9	E 9	E 8	E 6	SE 5	SE 5
20	S 8	S 6	S 6	S 6	SE 8	SE 7	SE 7	SE 8	SE 8	SE 9	SE 13	SE 6	S 9
21	S 7	S 7	S 7	S 4	S 4	SW 5	SW 5	SW 10	SW 5	SW 6	SW 3	SW 4	SW 3
22	E 3	SW 3	SW 5	SW 3	W 5	W 5	W 5	W 5	W 4	W 5	W 6	W 2	SW 3
23	E 10	E 14	E 17	E 20	E 22	E 23	E 23	E 26	SE 29	E 31	E 35	E 35	E 37
24	SE 54	SE 48	SE 41	SE 34	SE 31	SE 28	E 26	E 19	N 25	N 34	N 34	N 30	N 28
25	NE 32	NE 28	NE 30	NE 30	NE 30	NE 27	NW 15	N 11	N 11	NW 17	W 15	W 13	W 8
26	N 19	N 18	N 16	N 20	N 17	NE 17	NE 15	NE 13	NE 11	NE 12	E 19	E 19	E 17
27	SW 7	SW 5	SW 4	S 5	S 3	E 5	W 5	E 8	E 13	E 12	E 12	E 14	E 16
28	SE 11	S 7	S 11	S 15	S 16	S 17	S 20	S 16	S 12	SE 14	SE 17	SE 20	SE 28
29	SE 12	SE 12	SE 9	S 9	SW 10	S 9	S 7	S 8	SW 10	SW 6	W 4	W 4	NE 6
30	SE 27	E 26	E 26	E 23	E 22	SE 20	E 19	E 18	E 18	E 20	E 17	E 21	E 19
Prevailing direction	SE	SE	S	S	S	S	S	S	S	S	E	E	E
Mean speed	12.4	11.9	11.6	11.4	11.5	10.9	10.9	10.4	10.3	11.0	11.4	10.7	10.8

GMT	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-34	Prev. dir.	Mean speed	Max. wind
Date														
1	E 2	E 2	SE 2	SE 4	SE 4	SE 5	SE 4	SE 7	E 8	E 9	E 12	E	3.9	E 13
2	S 8	S 7	S 5	S 4	S 3	S 4	S 5	S 9	S 11	S 8	S 6	S	9.4	E 16
3	S 6	S 3	S 3	S 2	SE 2	SE 5	SE 5	SE 8	SE 8	SE 8	SE 7	S	6.0	S 13
4	SE 8	S 7	S 6	S 5	S 6	S 7	S 7	S 6	S 4	S 6	S 9	S	9.8	SE 19
5	SW 4	SW 3	DI 1	SW 3	S 2	DI 1	S 4	SE 4	SE 2	SE 2	SE 6	SW	5.2	S 17
6	SW 6	SW 6	SW 8	SW 8	SW 6	S 6	SE 5	S 12	S 13	S 11	SW 15	S	7.0	S 17
7	SW 11	SW 9	SW 11	W 8	W 6	W 4	W 6	W 9	SW 9	E 8	E 6	SW	9.4	SW 16
8	S *8*	SW *9*	SW *8*	SW *9*	SW *10*	SW 12	SW 10	SW 10	S 8	SW 8	SW 9	S	7.2	SW 14
9	SE 6	SE 7	E 9	E 9	E 12	E 17	E 15	E 13	E 7	E 5	SE 5	E	7.1	E 18
10	SW 12	SW 8	SW 10	SW 4	W 6	W 5	W 4	W 3	S 3	SE 4	SE 5	SW	8.0	SW 16
11	E 9	E 12	E 14	E 14	E 13	E 11	E 10	SE 9	SE 10	SE 7	SE 9	E	9.5	E 17
12	E 21	E 21	E 20	E 20	E 20	E 20	E 19	E 19	E 20	E 20	E 17	E	18.4	E 23
13	E 18	E 18	E 17	SE 17	SE 17	SE 17	SE 16	SE 16	SE 15	SE 15	SE 12	E	17.7	E 21
14	S 9	S 7	S 8	S 8	S 6	S 5	S 4	S 7	S 8	S 10	S 9	S	8.8	E 15
15	S 4	SE 5	E 9	E 12	E 12	E 16	E 20	E 18	E 19	E 18	E 17	S	9.5	E 21
16	S 4	S 3	S 5	S 6	S 3	S 5	S 4	S 5	S 3	S 5	S 4	S	5.6	E 18
17	S 9	S 7	S 10	SE 12	SE 12	SE 15	SE 11	S 7	S 7	S 9	SE 7	S	8.8	SE 17
18	SE 5	SE 6	SE 6	SE 6	SE 8	E 9	E 10	E 10	E 13	E 12	E 10	E	7.2	E 14
19	SE 6	SE 5	SE 5	SE 6	SE 5	SE 8	SE 7	S 6	S 6	S 7	S 7	E	8.0	E 14
20	SE 11	SE 10	SE 8	S 6	S 5	S 6	S 7	S 9	S 8	S 6	S 6	S	7.6	SE 14
21	SW 2	SW 3	SW 4	SW 3	SW 4	SW 3	S 3	W 3	SW 2	E 3	E 2	SW	4.2	SW 13
22	SW 3	S 4	SE 5	NE 8	NE 7	E 6	E 8	NE 9	E 10	E 9	E 10	W	5.5	E 10
23	SE 40	SE 42	SE 42	SE 44	SE 49	SE 48	SE 51	SE 54	SE 54	SE 53	SE 50	SE	35.4	SE 56
24	N 29	N 27	N 27	N 25	NE 26	NE 24	NE 24	NE 23	NE 29	NE 27	NE 29	N	30.1	SE 56
25	W 9	N 4	N 5	N 5	NE 6	NE 10	N 9	NW 14	NW 17	N 17	N 20	N	16.0	NE 32
26	E 16	E 16	E 13	E 12	E 12	E 11	S 7	S 8	S 7	SW 6	SW 6	E	13.6	N 21
27	E 17	E 20	E 21	E 21	E 23	E 26	SE 26	SE 21	SE 18	SE 16	SE 11	E	13.7	E 25
28	*E 32*	E *35*	*E 36*	*E 35*	*E 31*	E 24	E 20	E 22	E 20	E 18	E 15	E	20.5	E 36
29	N 10	N 14	N 21	N 20	N 15	NE 12	NE 7	E 13	E 18	E 22	E 26	N	11.8	E 27
30	E 17	E 17	E 15	E 15	E 13	E 15	E 15	E 15	E 16	E 15	E 12	E	18.4	SE 30
Prevailing direction	E	E	E	E	E	E	E	S	S	E	E	E		SE 56
Mean speed	11.4	11.2	11.8	11.6	11.5	11.9	11.4	12.3	12.4	12.1	12.0		11.5	

Italic values obtained by interpolation.

TABLE 23.—*Little America III, wind direction and speed hourly values*—Continued

OCTOBER 1940

GMT	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13
Date													
1	E 11	E 12	E 14	E 12	E 11	E 11	NE 11	NE 9	E 8	N 15	N 21	N 17	E 11
2	E 33	E 32	SE 30	SE 31	E 27	E 26	E 25	E 25	E 23	E 22	E 22	E 20	SE 20
3	S 7	SW 5	S 4	S 9	SW 10	S 12	S 12	S 10	S 9	S 11	SW 8	S 11	S 12
4	S 26	SW 27	SW 24	SW 17	SW 22	W 15	W 20	W 22	W 20	W 15	W 17	W 17	NW 20
5	W 15	W 12	W 9	W 8	W 7	NW 11	W 18	W 18	W 17	W 17	W 11	W 13	W 14
6	W 4	W 2	W 5	SW 3	S 3	N 3	NE 3	NE 3	SW 3	S 4	S 7	S 2	N 3
7	S 7	SE 5	SE 5	SE 7	SE 5	E 6	E 8	E 9	E 9	E 12	E 11	E 11	E 12
8	E 18	E 18	E 17	SE 12	SW 9	S 12	S 12	SW 8	S 8	SW 12	S 12	S 15	S 17
9	S 8	SW 8	SW 9	SW 7	S 7	S 7	S 9	S 7	S 7	S 7	S 9	SW 9	SW 5
10	SW 17	SW 17	SW 14	SW 14	SW 12	SW 12	SW 6	S 9	S 5	S 4	S 6	E 9	E 13
11	E 21	E 18	E 21	SE 23	SE 26	E 26	E 25	SE 26	SE 22	SE 19	E 26	E 31	E 33
12	SE 29	SE 26	SE 26	SE 20	S 15	S 15	S 16	S 17	S 17	S 14	S 15	S 16	SW 10
13	S 5	S 5	S 5	S 5	S 4	S 4	S 4	S 5	SE 4	SE 6	E 8	E 11	E 12
14	E 25	E 26	SE 28	SE 29	E 30	E 30	E 27	SE 25	SE 23	SE 26	SE 27	SE 32	SE 30
15	E 17	E 17	E 17	E 17	N 14	N 14	N 15	N 15	N 13	N 16	N 15	N 16	N 15
16	S 10	S 11	S 13	S 11	S 10	S 13	SE 17	SE 17	S 14	S 11	SW 10	S 7	S 6
17	SW 13	SW 14	SW 14	SW 13	SW 12	SW 10	SW 9	SW 8	SW 6	W 8	SW 5	SW 5	S 4
18	S 10	SW 13	SW 16	S 16	SW 13	SW 17	SW 21	SW 20	SW 20	SW 23	SW 25	SW 25	SW 22
19	SW 17	SW 17	SW 14	SW 13	SW 12	SW 11	S 9	S 6	SW 4	SW 4	SW 3	SW 3	SW 3
20	SW 9	W 7	W 7	W 5	W 6	SW 6	SW 3	E 8	E 9	NE 9	NE 11	NE 10	E 11
21	E 26	E 26	E 22	NE 19	NE 20	NE 21	E 17	E 17	E 18	E 17	NE 17	NE 16	NE 14
22	E 16	E 16	E 17	E 17	E 20	E 20	E 19	E 19	E 18	E 17	E 16	E 16	E 17
23	E 15	E 14	E 12	E 13	E 11	E 12	E 12	E 11	SE 8	E 9	E 8	SE 8	SE 6
24	SW 17	SW 17	SW 20	SW 19	SW 10	S 13	SW 17	SW 14	SW 14	S 12	S 11	S 9	S 9
25	S 3	SW 5	S 5	S 5	S 4	S 5	SW 7	SW 7	SW 7	SW 5	SW 5	SW 5	S 6
26	S 11	S 12	SW 12	SW 11	SW 9	SW 12	SW 16	SW 14	SW 11	SW 12	SW 12	SW 10	S 7
27	E 8	E 4	E 9	E 14	E 17	E 17	SE 13	SE 10	SE 17	SE 15	SE 14	E 21	E 25
28	E 20	E 17	E 17	E 15	E 17	E 17	E 14	E 13	E 13	E 14	E 13	E 13	E 15
29	E 11	N 9	N 11	N 13	N 13	N 11	NE 10	NE 13	NE 10	N 8	NE 8	NE 8	E 9
30	E 17	E 18	E 20	E 20	E 19	SE 19	SE 20	SE 21	SE 23	SE 23	E 24	SE 21	SE 20
31	SE 8	SE 14	SE 14	SE 13	SE 11	SE 10	SE 9	SE 9	SE 5	S 5	SE 8	E 6	E 10
Prevailing direction	E	E	E	SW	SW	E	SW	E	SE	S	SW	E	E
Mean speed	14.6	14.3	14.5	13.9	13.1	13.5	13.7	13.4	12.4	12.6	13.1	13.3	13.2

GMT	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Prev. dir.	Mean speed	Max. wind
Date														
1	E 14	E 22	E 30	E 31	E 27	E 30	SE 32	SE 32	E 32	E 32	E 30	E	19.8	E 34
2	E 18	E 15	E 12	SE 9	S 7	S 8	S 10	S 7	SE 6	S 8	S 6	E	18.4	E 34
3	S 8	S 10	S 7	S 7	S 7	S 10	SW 11	SW 19	SW 20	SW 23	SW 29	S	11.3	SW 29
4	W 19	W 17	W 15	SW 16	SW 18	SW 14	W 10	W 7	W 9	SW 11	SW 14	W	17.2	S 29
5	W 15	W 15	W 14	W 13	W 10	W 10	W 11	W 10	SW 9	SW 5	W 4	W	11.9	W 20
6	SE 4	SE 6	SE 6	SE 3	S 3	SE 5	SE 4	E 4	SE 4	S 6	S 7	S	4.0	S 8
7	E 12	E 13	E 16	E 17	E 13	E 16	E 16	E 16	E 17	E 17	E 19	E	11.6	E 19
8	SW 17	SW 19	S 15	S 12	S 12	S 12	SW 13	SW 12	SW 12	SW 12	S 9	S	13.1	E 21
9	S 5	S 5	S 5	SW 8	S 5	SE 5	SE 4	S 5	S 5	SW 10	SW 14	S	7.1	SW 17
10	E 10	E 10	E 14	E 16	E 13	E 18	E 18	E 18	E 21	E 22	E 21	E	13.3	E 22
11	SE 33	SE 32	SE 30	SE 29	SE 27	SE 29	SE 28	SE 29	SE 28	SE 26	SE 27	SE	26.5	SE 34
12	S 11	SW 11	SW 10	SW 9	SW 9	SW 10	S 9	S 7	S 8	S 8	S 7	S	14.0	SE 29
13	E 15	E 16	E 17	E 17	E 18	E 17	E 17	E 17	E 18	E 19	E 23	E	11.3	E 25
14	SE 29	SE 29	SE 24	SE 21	E 22	E 25	E 26	E 23	E 20	E 17	E 17	E	25.5	SE 32
15	N 13	N 13	NE 13	NE 11	NE 5	N 8	N 8	N 7	N 10	NE 8	NE 11	N	12.8	N 17
16	S 5	S 3	W 6	SW 8	S 11	SW 18	SW 17	SW 16	SW 17	SW 18	SW 14	S	11.8	SW 20
17	SE 5	SE 7	SE 8	SE 7	S 6	S 6	S 8	S 7	S 8	S 9	S 9	SW	8.4	SW 16
18	SW 24	SW 21	SW 22	SW 22	SW 21	SW 20	SW 20	S 17	S 18	SW 17	SW 17	SW	19.2	SW 27
19	SW 3	SW 3	SW 2	SW 3	W 2	W 4	W 10	SW 10	W 10	SW 11	SW 7	SW	6.4	SW 19
20	E 14	E 19	E 23	E 21	E 20	E 22	E 22	E 24	E 24	E 25	E 26	E	14.2	E 26
21	NE 15	NE 16	NE 17	NE 17	E 16	NE 17	NE 12	E 16	E 16	E 16	E 17	E	17.7	E 26
22	E 18	E 20	E 18	E 17	E 17	E 19	E 19	E 19	E 17	E 17	E 16	E	17.7	E 20
23	S 5	S 6	S 7	S 6	SW 6	SW 6	SW 7	SW 7	SW 11	SW 9	SW 12	E	9.2	E 17
24	SE 7	SE 7	SE 6	SE 5	S 6	S 4	S 5	S 7	S 5	S 5	S 5	S	10.2	SW 25
25	S 4	S 7	S 7	S 7	S 8	SW 8	SW 10	SW 10	S 9	S 6	S 10	S	6.4	S 14
26	S 6	S 8	S 9	S 3	S 3	S 4	S 5	S 5	S 5	SE 6	E 9	S	8.8	S 16
27	E 26	E 26	E 29	E 28	E 28	E 28	E 27	E 26	E 25	E 24	E 22	S	19.7	E 29
28	E 14	E 12	E 13	E 14	E 13	E 13	E 12	E 13	E 11	E 13	E 12	E	14.1	E 20
29	E 10	E 10	E 11	E 10	E 11	E 11	E 16	E 15	E 16	E 17	E 16	E	10.4	E 17
30	SE 22	SE 21	SE 20	SE 20	E 16	SE 12	SE 16	SE 15	SE 14	SE 13	SE 11	SE	18.5	SE 25
31	E 11	E 12	E 11	E 12	E 14	E 15	E 15	E 17	E 17	E 17	E 17	E	11.7	E 21
Prevailing direction	E	E	E	E	E	E	E	E	E	E	E	E		E 34
Mean speed	13.3	13.9	14.1	13.5	12.7	13.7	14.1	14.1	14.2	14.4	14.8		13.7	

Italic values obtained by interpolation.

TABLE 23.—*Little America III, wind direction and speed hourly values*—Continued

NOVEMBER 1940

GMT	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13
Date													
1	E 17	E 17	E 17	E 16	E 12	E 8	S 7	S 8	SW 10	SW 10	SW 8	SW 10	S 10
2	E 14	SE 14	E 13	E 11	E 13	E 13	E 15	E 17	E 17	E 17	E 15	E 16	E 15
3	S 16	S 16	SW 17	SW 15	SW 15	SW 15	SW 15	S 13	S 13	SW 11	SW 11	SW 10	SW 10
4	S 5	S 8	S 6	S 5	S 6	S 5	S 7	SW 7	S 6	SW 5	SW 3	S 5	S 7
5	SE 8	SE 13	SE 19	SE 14	SE 14	S 10	S 8	SE 9	S 8	S 9	S 9	S 11	S 8
6	S 24	S 26	S 26	S 28	S 24	S 20	SW 22	S 19	S 18	SW 21	SW 24	SW 19	SW 20
7	SE 14	SE 14	SE 17	SE 15	E 20	E 18	E 17	E 12	E 8	E 11	E 15	E 13	E 17
8	E 23	E 23	E 22	E 20	E 17	E 16	E 17	E 16	E 15	E 15	E 15	E 14	SE 14
9	E 10	E 9	E 7	E 7	E 7	E 6	E 6	E 4	E 4	SE 6	SE 8	E 4	SE 3
10	SE 7	SE 6	E 8	E 6	E 7	E 5	E 6	S 4	S 3	S 4	S 4	S 5	S 4
11	W *3*	E 4	E 7	NE 6	NE 9	NE 7	N 8	N 7	N 5	NE 7	NE 6	E 8	E 9
12	SE *10*	E *5*	E *5*	S *5*	S *6*	S 4	SW 4	SW 6	SW 7	SW 7	S 6	SW 9	SW 9
13	S 12	S 14	S 14	S 9	SE 7	SE 9	SE 7	SE 6	S 6	SW 7	SW 9	SW 6	SW 12
14	E 17	E 16	E 17	E 17	E 14	E 12	E 13	E 15	SE 16	E 16	SE 14	SE 15	SE 19
15	SE 9	SE 10	SE 11	E 14	E 15	E 15	SE 16	SE 17	E 17	E 17	E 14	E 13	E 15
16	E 11	E 9	E 9	E 8	E 8	E 8	S 7	S 7	S 7	S 8	S 10	S 8	S 8
17	SW 3	SW 4	SW 5	W 4	W 3	W 3	W 2	W 2	N 4	N 4	NE 7	NE 4	E 3
18	E *5*	E 6	E 8	E 9	E 10	E 9	E 10	E 11	E 9	E 7	S 4	S 4	SE 4
19	E 4	E 4	E 4	E 2	E 4	E 4	E 4	E 4	N 6	NE 6	NE 9	NE 9	NE 10
20	NE 11	NE 10	NE 10	NE 10	NE 11	NE 8	NE 12	NE 12	NE 12	NE 13	NE 12	NE 11	NE 13
21	SW 14	SW 13	SW 15	SW 16	SW 16	SW 15	SW 10	SW 4	SW 6	SW 8	W 7	W 6	W 3
22	W 7	W 6	SW 6	S 7	S 8	S 5	S 2	S 4	S 4	SW 4	SE 6	E 9	SE 8
23	SE 18	SE 17	SE 17	SE 17	SE 17	S 10	S 10	S 16	S 17	S 14	S 14	S 15	S 15
24	S 15	S 15	S 13	S 11	S 9	S 8	S 7	S 8	S 5	S 6	SE 6	SE 5	E 2
25	E 4	E 4	E 5	E 6	E 6	E 6	E 10	E 16	E 15	E 13	E 13	E 13	E 14
26	S 11	SE 11	SE 12	SE 13	E 14	E 14	E 13	SE 13	E 16	SE 14	SE 15	SE 16	SE 15
27	E 17	E 18	E 17	E 17	E 18	E 17	E 17	E 17	E 17	E 20	E 21	E 20	E 20
28	E 26	E 26	E 26	E 26	E 25	E 21	E 21	E 20	E 18	E 17	E 16	E 18	E 19
29	W 11	W 11	W 10	W 10	W 8	W 10	W 12	W 13	W 13	W 14	W 15	W 14	W 14
30	SW 10	SW 10	SW 9	SW 8	W 8	SW 7	SW 5	W 4	NW 3	N 6	NE 5	NW 5	W 3
Prevailing direction	E	E	E	E	E	E	E	E	E	E	E	E	E
Mean speed	11.9	12.0	12.4	11.7	11.7	10.3	10.3	10.4	10.2	10.6	10.7	9.6	10.8

GMT	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-34	Prev. dir.	Mean speed	Max. wind
Date														
1	S 10	S 8	S 7	S 7	S 6	S 6	SE 12	SE 14	SE 12	E 15	E 13	S	10.8	E 17
2	E 15	E 12	E 11	E 12	E 9	SE 8	SE 6	SE 4	S 9	S 11	S 11	E	12.4	E 18
3	SW 10	SW 8	SW 6	SW 5	SW 6	S 6	S 3	S 4	S 5	S 5	S 5	SW	10.0	SW 18
4	S 6	SW 8	SW 12	SW 10	SW 14	SW 17	S 16	S 14	S 10	SE 11	E 12	S	8.5	S 19
5	SW 13	S 13	S 14	S 16	S 18	S 22	S 18	S 17	S 19	S 20	S 19	S	13.7	S 23
6	SW 23	SW 21	SW 22	SW 19	SW 18	SW 13	SW 14	S 12	S 9	E 17	SE 17	SW	19.8	SW 29
7	E 15	E 18	E 18	E 20	E 15	E 15	E 16	E 15	E 17	E 22	E 19	E	15.9	E 23
8	E 15	E 16	E 15	E 16	E 13	E 14	E 13	E 12	E 11	E 11	E 11	E	15.6	E 24
9	S 3	S 3	S 4	S 4	S 5	S 4	S 4	SE 4	SE 7	SE 6	SE 6	E	5.4	E 12
10	S 4	SW 4	SW *3*	S *2*	S *3*	SE *3*	E *2*	E *3*	SW 4	SW 4	W *5*	S	4.3	E 9
11	E 9	E 9	E 9	E 11	E 11	E 12	E 11	SE 11	SE 13	E 13	E 10	E	8.5	E 14
12	SW 10	SW 11	SW 13	SW 13	SW 12	SW 13	SW 11	SW 11	SW 14	SW 11	SW 11	SW	8.9	SW 16
13	SW 10	SW 16	SW 13	SW 14	SW 10	SW 10	S 9	SE 10	E 15	E 17	E 17	SW	10.8	E 18
14	SE 17	E 16	E 16	E 15	E 16	E 16	E 16	E 14	E 12	E 10	E 9	E	14.9	E 17
15	E 16	E 15	E 17	E 16	E 16	E 14	E 11	E 11	E 12	E 12	E 11	E	13.9	E 17
16	S 7	S 6	SW 5	S 6	SW 6	S 5	S *3*	SE *2*	S *2*	S *2*	SW *2*	S	6.4	S 12
17	E 5	E 8	NE 9	N 3	DI 1	NE 6	E 8	E 6	E 4	N 2	N 7	E	4.4	N 11
18	SE 3	S 4	S 5	SE 5	SE 3	SE 5	SE 5	E 5	E 4	E 4	E 3	E	5.9	E 12
19	NE 12	NE 12	NE 12	NE 12	NE 13	NE 13	NE 13	NE 13	NE 14	NE 13	NE 12	NE	8.7	NE 15
20	NE 13	NE 10	NE 10	NE 9	N 5	NE 6	SW 9	SW 10	SW 9	SW 12	SW 12	NE	10.4	NE 15
21	W 11	W 15	W 14	SW 15	SW 14	SW 14	SW 12	SW 11	SW 9	SW 7	W 6	SW	10.9	SW 17
22	SE 12	SE 13	SE 13	SE 14	SE 14	SE 17	SE 18	SE 17	SE 18	SE 19	SE 18	SE	10.4	SE 19
23	S 15	S 14	S 14	S 13	S 13	S 12	S 13	S 16	S 14	S 15	S 16	S	14.7	SE 18
24	E 5	E 5	E 2	E 4	E 5	E 4	E 9	E 9	E 9	E 4	E 3	E	7.0	S 15
25	E 14	E 14	E 13	E 13	E 12	E 9	E 9	SE 9	SE 9	S 8	S 9	E	10.2	E 17
26	SE 13	SE 15	SE 16	E 16	E 17	E 18	E 18	E 18	E 18	E 17	E 17	E	15.0	E 19
27	E 20	E 21	E 23	E 22	E 22	E 24	E 26	E 25	E 25	E 25	E 24	E	20.5	E 27
28	E 19	E 20	SE 17	E 16	SE 17	N 9	N 7	NW 13	NW 13	W 10	W 11	E	18.0	E 27
29	W 12	W 9	SW 9	W 11	W 9	W 8	W 8	W 9	SW 8	SW 10	SW 10	W	10.8	W 17
30	W 3	N 3	N 6	N 6	NE 8	NE 10	NE 9	NE 12	NE 13	NE 13	E 10	NE	7.3	NE 15
Prevailing direction	E	E	E	E	E	E	E	E	E	E	E	E		SW 29
Mean speed	11.3	11.6	11.6	11.5	11.0	11.1	11.0	11.0	10.7	11.5	11.2		11.1	

Italic values obtained by interpolation.

TABLE 23.—*Little America III, wind direction and speed hourly values*—Continued

DECEMBER 1940

GMT	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13
Date													
1	E 12	E 11	E 11	E 14	E 13	E 14	E 15	E 17	E 17	E 15	E 17	E 15	E 16
2	SE 17	SE 19	SE 22	SE 24	SE 26	SE 27	SE 28	SE 28	SE 28	SE 26	SE 25	SE 24	SE 26
3	SE 34	SE 31	SE 31	E 29	E 31	E 30	E 29	E 30	E 29	E 27	E 29	E 27	E 27
4	E 26	E 24	E 24	E 22	E 24	E 22	E 22	E 22	E 23	E 22	E 22	E 21	E 22
5	E 21	E 18	E 18	E 17	E 17	E 17	E 17	E 15	SE 15	SE 18	E 21	E 20	E 20
6	E 17	E 14	E 17	E 17	E 17	E 16	E 16	E 16	E 16	E 15	E 16	E 15	E 14
7	E 7	E 5	E 4	E 2	S 5	S 4	S 6	S 5	S 5	S 7	S 7	S 8	S 6
8	S 5	S 3	S 4	S 5	S 4	S 5	S 6	S 6	S 5	SW 7	S 7	S 6	S 7
9	S 10	S 8	S 8	S 8	S 7	S 8	SW 8	SW 8	SW 9	SW 7	SW 7	SW 5	SW 5
10	SW 10	S 10	SW 10	SW 9	SW 8	SW 8	SW 7	SW 7	SW 7	SW 6	S 7	S 6	S 6
11	SE 7	E 7	E 7	E 8	E 8	E 9	E 10	E 10	E 10	E 10	E 10	E 10	E 12
12	SE 10	SE 10	SE 9	SE 7	SE 7	SE 5	SE 7	SE 6	SE 6	S 4	S 6	S 6	S 6
13	S 4	S 5	S 5	S 8	S 8	S 7	S 7	S 8	S 8	S 4	S 6	S 3	S 3
14	S 7	S 5	S 7	S 6	S 6	S 5	S 5	S 5	S 8	SE 8	SE 10	E 12	E 12
15	SE 17	E 18	SE 17	SE 15	SE 17	SE 14	SE 14	SE 13	SE 14	E 16	SE 16	E 16	SE 15
16	S 6	S 8	S 6	S 7	S 6	S 7	S 6	S 4	S 5	S 5	S 7	S 6	SE 9
17	S 3	S 3	S 7	S 9	S 6	S 7	S 8	S 7	S 6	S 5	S 5	S 6	S 6
18	SW 14	SW 15	SW 15	SW 16	SW 12	S 10	S 10	S 8	S 7	SW 9	SW 10	SW 9	SW 11
19	S 2	S 3	DI 1	DI 1	S 2	E 4	E 5	E 5	E 7	NE 6	NE 7	NE 9	NE 9
20	NE 13	NE 15	NE 15	NE 12	NE 13	E 12	E 14	E 16	E 14	E 13	E 14	E 12	E 12
21	E 22	E 19	N 12	N 9	N 10	N 11	N 10	N 12	N 12	N 15	N 14	N 13	N 11
22	SW 7	SW 11	SW 12	SW 13	SW 14	SW 16	S 14	S 12	S 12	S 11	S 9	S 8	S 13
23	S 14	S 14	S 14	S 13	SW 13	SW 12	SW 10	SW 9	SW 9	SW 8	SW 7	SW 8	SW 6
24	W 8	W 5	W 5	NW 4	NW 2	DI 1	NE 3	E 5	E 6	E 6	E 6	SE 6	SE 7
25	E 11	E 10	NE 9	NE 9	NE 9	NE 9	NE 9	NE 9	E 8	E 8	NE 8	E 10	NE 9
26	E 23	SE 25	E 26	E 28	E 28	SE 30	E 30	SE 32	SE 32	SE 34	E 34	SE 34	SE 31
27	NE 9	NE 9	NE 9	NE 10	NE 7	N 8	N 8	N 6	NE 6	NE 6	NE 7	NE 4	N 2
28	N 11	N 12	NE 13	NE 13	NE 14	NE 12	N 10	N 9	N 10	N 11	N 13	N 13	N 13
29	E 15	E 14	NE 14	NE 14	NE 16	NE 15	S 10	S 10	S 7	S 7	S 5	S 6	SW 8
30	SW 12	SW 12	W 13	SW 10	W 12	W 10	W 11	W 12	SW 10	W 10	W 10	SW 12	SW 11
31	W 6	W 7	NW 5	NW 3	N 6	N 3	N 4	N 3	NW 3	NW 3	N 3	N 4	N 5
Prevailing direction	E	E	E	E	S	S	S	S	S	E	E	E	E
Mean speed	12.2	11.9	11.9	11.7	11.9	11.5	11.6	11.4	11.4	11.4	11.7	11.4	11.6

GMT	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-34	Prev. dir.	Mean speed	Max. wind
Date														
1	E 17	E 17	E 19	E 18	E 17	E 17	SE 17	E 22	SE 21	SE 19	SE 17	E	16.2	E 23
2	SE 31	E 32	SE 30	E 34	E 35	E 35	SE 34	SE 35	SE 34	SE 35	SE 35	SE	28.8	SE 37
3	E 29	SE 27	E 27	E 27	E 27	E 27	E 28	E 26	E 26	E 26	E 26	E	28.3	SE 35
4	E 20	E 20	E 18	E 15	E 18	NE 22	E 21	E 21	E 20	E 21	E 21	E	21.4	E 26
5	SE 19	E 22	E 21	E 19	SE 17	E 18	E 18	E 17	E 17	E 16	E 17	E	18.1	E 23
6	E 13	E 12	E 13	E 12	E 10	E 9	E 9	NE 10	E 7	E 10	E 8	E	13.3	E 19
7	SE 8	S 7	S 4	S 6	S 4	S 5	S 6	S 5	SE 5	S 5	S 5	S	5.4	S 9
8	S 6	S 4	S 5	S 5	S 4	S 5	S 6	S 7	S 7	S 9	S 9	S	5.7	S 10
9	SW 5	SW 6	S 8	S 6	SW 7	SW 8	SW 8	SW 9	SW 7	SW 9	SW 10	SW	7.5	SW 11
10	S 5	S 5	S 5	S 5	S 5	S 4	SE 6	SE 5	E 4	E 6	SE 6	S	6.5	SW 12
11	E 13	E 11	SE 11	SE 11	E 14	E 12	E 13	E 13	E 12	SE 13	SE 13	E	10.6	E 14
12	S 7	S 6	S 5	SE 6	SE 7	S 6	S 6	S 6	S 6	S 6	S 6	S	6.5	SE 11
13	E 4	E 4	E 5	E 4	SE 8	SE 7	S 5	S 5	S 7	S 7	S 7	S	5.8	S 10
14	SE 12	SE 15	E 15	SE 16	E 17	SE 17	SE 17	SE 17	SE 17	SE 17	SE 17	SE	11.4	SE 19
15	SE 13	SE 11	SE 9	SE 6	SE 5	SE 6	SE 5	S 4	S 5	S 4	S 7	SE	11.5	E 19
16	E 8	E 12	E 11	E 9	SE 11	E 11	S 7	S 4	S 3	S 2	S 2	S	6.8	E 13
17	SW 7	SW 7	SW 8	SW 7	SW 9	SW 11	SW 15	SW 15	S 13	S 14	SW 14	S	8.2	SW 16
18	SW 10	SW 9	SW 8	SW 6	S 6	S 6	S 4	S 5	SW 4	SW 5	SW 4	SW	8.9	SW 17
19	NE 10	NE 8	E 9	E 11	NE 10	NE 10	NE 9	NE 11	NE 11	NE 11	NE 11	NE	7.2	NE 13
20	E 13	E 13	E 14	E 15	E 15	E 15	E 17	E 16	E 18	E 21	E 22	E	14.8	E 22
21	N 10	N 9	N 8	N 5	NW 4	W 6	W 7	W 7	SW 6	S 5	SW 6	N	10.1	E 22
22	S 13	S 16	S 14	S 12	S 12	S 14	S 16	S 14	S 16	S 17	S 16	S	13.0	S 18
23	SW 6	W 5	W 3	W 3	W 4	W 7	SW 7	W 6	W 5	W 6	W 7	SW	8.2	S 16
24	SE 8	E 8	SE 6	SE 4	SW 5	SW 6	S 5	S 3	E 8	E 10	E 10	E	5.7	E 11
25	E 8	E 8	E 11	E 12	E 18	E 18	E 18	E 18	E 19	SE 19	E 18	E	11.9	SE 21
26	SE 27	SE 23	E 20	E 21	E 21	E 21	E 20	E 17	E 17	E 15	E 12	E	25.0	SE 34
27	NE 5	NE 5	NE 4	E 7	E 7	E 8	E 7	E 8	E 6	NE 7	N 9	NE	6.8	NE 11
28	N 12	N 12	N 10	N 11	N 13	N 13	N 13	N 8	NE 8	E 8	E 8	N	11.2	N 15
29	SW 9	S 8	S 9	S 13	S 12	S 14	S 12	SW 11	SW 12	SW 12	SW 12	S	11.0	NE 17
30	W 10	W 9	W 9	W 8	W 9	W 7	W 7	W 8	W 8	W 8	W 8	W	9.8	W 14
31	N 5	NE 6	NE 7	NE 6	NE 6	N 5	N 7	NW 8	NW 6	N 7	N 5	N	5.1	NW 9
Prevailing direction	E	E	E	E	E	E	S	S	E	S	E	E		SE 37
Mean speed	11.7	11.5	11.2	11.0	11.5	11.9	11.9	11.6	11.4	11.9	11.9		11.6	

TABLE 23.—*Little America III, wind direction and speed hourly values*—Continued

JANUARY 1941

GMT	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13
Date													
1	N 2	W 5	NW 6	NW 5	N 4	N 5	NW 7	N 7	NW 6	NW 10	NW 11	NW 11	N 8
2	NE 11	E 10	NE 12	NE 14	NE 17	NE 16	NE 16	E 17	NE 18	NE 20	NE 21	E 18	E 19
3	E 14	E 13	E 11	E 13	E 11	SE 8	SE 12	SE 16	E 17	E 17	E 15	E 14	E 12
4	SE 12	SE 12	SE 13	E 11	E 9	S 8	S 10	S 10	S 9	S 9	S 6	S 7	SE 9
5	E 11	E 11	SE 10	SE 10	SE 9	SE 8	SE 8	SE 9	SE 9	SE 9	SE 7	SE 8	S 7
6	S 6	S 8	S 9	S 9	S 10	S 8	S 9	SW 7	SW 7	SW 6	SW 6	SW 6	SW 5
7	S 9	S 10	S 11	S 12	S 12	S 10	S 6	SE 5	SE 5	S 5	S 5	S 5	S 4
8	S 16	S 12	S 16	S 15	SW 12	SW 11	S 8	S 8	SW 7	W 5	SW 8	SW 9	SW 10
9	SW 13	SW 12	SW 9	S 5	S 2	S 4	S 7	SE 6	S 6	S 7	S 7	S 6	SE 6
10	E 14	E 13	E 12	E 11	E 11	E 10	E 13	E 14	E 12	E 15	E 15	E 16	E 14
11	E 17	E 17	E 17	E 17	E 17	E 15	E 14	E 14	E 10	E 9	SE 7	SE 8	SE 4
12	*SW 8*	*SW 8*	*SW 6*	*SW 6*	*SW 5*	SW 5	SW 5	SW 4	W 6	W 6	W 6	W 6	SW 9
13	SW 11	SW 7	SW 8	SW 8	W 9	SW 9	W 9	W 8	SW 8	SW 9	SW 8	S 9	S 4
14	SE 9	SE 9	SE 9	SE 9	SE 12	SE 14	SE 15	SE 17	SE 17	SE 18	SE 17	SE 19	E 19
15	E 21	E 22	E 20	E 18	E 18	E 18	E 19	E 20	E 18	E 18	SE 15	SE 13	SE 15
16	SE 13	SE 12	SE 16	SE 14	SE 14	SE 13	SE 12	SE 11	SE 13	SE 10	SE 8	SE 13	SE 14
17	S 9	S 9	S 10	S 11	S 11	S 14	S 11	SW 13	SW 9	S 12	S 10	S 9	S 10
18	S 5	S 5	S 4	S 5	SE 7	SE 6	E 9	E 8	E 8	E 8	SE 6	SE 6	SE 8
19	S 7	S 7	S 7	S 10	S 8	S 9	S 7	S 6	S 9	S 9	S 10	S 8	SE 6
20	S 14	S 13	S 11	S 7	S 4	E 10	E 12	E 10	E 10	E 11	E 11	E 14	E 13
21	E 11	E 9	E 8	E 9	E 6	E 7	E 8	E 7	SE 9	E 8	SE 8	SE 8	SE 9
22	SE 9	SE 9	E 8	E 9	SE 9	E 8	E 8	SE 8	SE 10	SE 10	SE 9	E 9	SE 7
23	E 4	E 5	E 5	E 7	E 9	E 8	E 8	NE 9	N 8	N 13	N 10	NE 9	N 13
24	E 18	E 17	E 18	E 19	E 18	E 16	SE 15	E 13	E 13	E 13	SE 13	S 11	SE 12
25	S 21	S 22	S 20	S 21	S 20	SW 20	SW 20	S 20	SW 21	SW 20	SW 17	SW 18	S 17
26	S 9	SE 12	SE 12	SE 15	SE 13	SE 13	SE 15	SE 13	SE 12	SE 14	SE 15	SE 15	E 15
27	E 12	E 11	NE 14	NE 11	NE 14	NE 9	NE 10	E 10	NE 10	N 10	NE 11	NE 12	E 15
28	E 15	E 15	E 16	E 16	E 13	SE 10	SE 11	SE 10	S 9	S 8	S 11	S 8	S 9
29	SW 10	SW 10	SW 7	SW 7	SW 6	SW 7	SW 7	W 6	W 5	SW 7	SW 7	SW 4	W 4
30	SE 10	SE 11	SE 12	SE 12	SE 10	SE 10	SE 11	SE 12	SE 12	SE 15	SE 16	E 15	E 16
31	SE 17	SE 17	E 17	E 19	E 19	E 19	E 19	E 19	E 20	E 21	E 21	E 21	E 24
Prevailing direction	E	E	E	E	E	E	E	E	E	E	SE	SE	SE
Mean speed	11.5	11.4	11.4	11.4	11.0	10.6	11.0	10.9	10.7	11.4	10.9	10.8	10.9

GMT	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Prev. dir.	Mean speed	Max. wind
Date														
1	N 11	N 10	N 12	N 15	N 12	N 8	E 10	E 14	NE 13	N 15	N 13	N	9.2	N 17
2	E 18	E 18	E 18	E 17	E 16	E 18	E 16	E 15	E 14	E 13	E 14	E	16.1	NE 21
3	E 13	E 11	E 12	E 10	E 8	SE 7	SE 8	SE 8	S 7	S 7	S 8	E	11.3	E 18
4	SE 10	SE 12	SE 13	SE 13	SE 13	SE 14	SE 13	SE 14	E 12	SE 10	SE 12	SE	10.9	SE 15
5	SE 8	SE 8	S 7	S 6	SE 6	SE 8	SE 9	SE 9	SE 6	E 7	SE 6	SE	8.2	E 12
6	SW 6	S 4	S 4	SW 5	SW 5	S 3	S 3	S 2	S 3	S 7	S 8	S	6.1	S 10
7	S 3	SE 7	SE 4	SW 7	SW 7	S 9	S 16	S 17	S 20	S 18	S 16	S	9.3	S 23
8	SW 15	SW 11	SW 8	W 11	SW 11	SW 13	SW 12	SW 12	SW 12	SW 13	SW 12	SW	11.1	S 17
9	SE 6	SE 4	SE 6	SE 6	S 5	W 2	S 3	S 4	SE 6	E 7	E 11	S	6.3	SW 14
10	E 17	E 15	E 15	E 14	E 15	E 15	E 17	E 16	E 13	E 15	E 15	E	14.0	E 18
11	S 5	S 4	SW 6	SW 4	W 7	SW 8	SW 8	SW 7	W 7	W 8	W 9	E	10.0	E 19
12	SW 6	SW 8	W 6	SW 5	SW 8	SW 7	S 9	S 7	SW 9	SW 9	SW 10	SW	6.8	SW 11
13	E 2	E 2	S 6	S 5	S 6	S 6	S 7	SE 9	SE 7	E 5	E 7	SW	7.0	SW 11
14	E 18	SE 15	SE 17	SE 11	S 9	S 15	S 12	SE 16	E 18	E 18	E 20	SE	14.7	E 23
15	E 16	SE 15	SE 14	E 15	SE 14	SE 16	SE 17	SE 16	SE 15	SE 13	SE 15	SE	16.7	E 23
16	SE 14	SE 15	SE 13	SE 10	SE 9	S 6	S 5	S 5	S 5	S 7	S 7	SE	10.8	E 16
17	S 9	S 6	S 6	S 6	S 5	SW 4	SW 3	S 3	SW 3	S 4	S 3	S	7.9	S 16
18	SE 8	SE 7	SE 8	SE 10	SE 12	SE 12	SE 12	SE 11	SE 9	SE 9	SE 8	SE	8.0	SE 13
19	S 6	S 8	S 9	S 9	S 9	S 10	S 11	S 12	S 13	S 16	S 13	S	9.1	S 16
20	E 12	E 12	E 11	E 10	E 11	E 11	E 10	E 9	E 10	E 9	E 11	E	10.7	E 15
21	SE 8	E 9	SE 10	E 10	E 10	SE 11	SE 11	SE 11	SE 9	SE 7	SE 9	E	8.8	SE 12
22	SE 5	SW 6	SW 3	SW 3	SW 3	S 4	SE 4	SE 5	E 5	E 5	E 3	SE	6.6	SE 12
23	NE 13	NE 12	NE 15	NE 16	NE 15	E 16	E 16	E 16	E 17	E 16	E 16	E	11.5	E 18
24	S 8	S 9	S 11	S 12	S 17	S 18	S 19	S 20	S 20	S 19	S 21	S	15.4	S 22
25	SW 16	S 17	S 16	S 16	S 14	S 15	S 16	S 11	S 10	S 10	S 8	S	16.9	S 22
26	SE 14	SE 15	SE 17	SE 16	SE 15	E 16	E 16	E 16	E 15	E 14	E 15	SE	14.2	SE 18
27	E 16	E 16	E 15	E 17	E 16	E 17	E 17	E 16	E 16	E 16	E 17	E	13.7	E 18
28	S 9	S 9	S 8	S 8	S 8	S 8	SW 9	SW 7	SW 9	SW 8	SW 10	S	10.2	E 18
29	W 4	SW 4	SW 4	SW 4	S 4	SE 10	SE 10	E 10	E 10	E 8	SE 7	SW	6.8	E 11
30	E 17	E 17	E 17	E 16	E 17	SE 16	SE 14	SE 16	SE 17	SE 17	SE 17	SE	14.3	SE 18
31	E 25	E 24	E 25	E 25	E 26	E 24	E 26	E 25	E 26	E 26	E 26	E	22.1	E 26
Prevailing direction	E	SE	SE	E	S	S	S	SE	E	E	E	E	11.1	E 26
Mean speed	10.9	10.6	10.8	10.7	10.7	10.8	11.6	10.4	11.5	11.5	11.8		11.1	

SURFACE WIND SUMMARIES

PREVAILING DIRECTIONS, MEAN SPEEDS, FREQUENCIES, RESULTANTS, COMPARISONS

TABLE 24.—*Little America III, surface wind, prevailing direction and mean speed, by days (from table 21)*

[Speeds corrected to true value, miles per hour]

Date	February	March	April	May	June	July	August	September	October	November	December	January
1	S 9.3	SE 10.5	NE 31.3	S 3.1	SW 5.3	S 10.1	SW 13.2	E 3.9	E 19.8	S 10.8	E 16.2	N 9.2
2	SW 8.8	SE 11.8	NE 21.8	E 3.4	N 8.4	NW 12.2	SW 8.2	S 9.4	E 18.4	E 12.4	SE 28.8	E 16.1
3	E 4.3	SE 14.0	E 13.9	SW 4.1	S 6.2	NE 26.6	E 6.7	S 6.0	S 11.3	SW 10.0	E 28.3	E 11.3
4	SE 15.4	S 8.0	E 9.2	SE 8.6	N 12.9	E 11.7	S 7.2	S 9.8	W 17.2	S 8.5	E 21.4	SE 10.9
5	S 6.8	SE 13.2	E 11.9	S 7.5	E 13.0	N 5.6	S 7.4	S 5.2	W 11.9	S 13.7	E 18.1	SE 8.2
6	E 23.4	E 13.8	SE 16.2	S 4.6	E 8.2	S 7.4	S 7.2	S 7.0	S 4.0	SW 19.8	S 5.4	S 6.1
7	S 8.9	SW 11.5	SW 17.9	S 4.5	E 10.4	S 8.4	N 11.8	S 9.4	E 11.6	E 15.9	S 5.7	S 9.3
8	S 7.3	E 14.2	SW 8.5	SW 9.9	E 32.9	SW 7.6	E 14.0	S 7.2	E 13.1	E 15.6	S 7.5	SW 11.1
9	S 12.5	W 9.2	S 9.2	E 20.2	E 20.2	N 14.0	S 8.7	S 7.1	S 7.1	E 5.4	S 6.5	S 6.3
10	S 10.2	SE 13.8	SE 6.5	S 20.8	W 8.2	SW 8.6	E 22.9	E 7.1	E 13.3	S 4.3		E 14.0
11	E 11.7	E 26.1	SW 5.3	S 6.2	E 24.6	E 16.7	E 15.4	SW 5.2	SE 26.5	E 8.5	E 10.6	E 10.0
12	S 10.8	E 28.5	S 9.7	E 9.0	E 22.4	S 6.2	S 9.0	E 18.4	S 14.0	SW 8.9	S 6.5	SW 6.8
13	E 7.0	NE 14.8	S 5.4	E 9.4	E 10.0	E 7.2	W 7.2	E 17.7	E 11.3	SW 10.8	S 5.8	SW 7.0
14	E 12.4	N 14.0	E 6.4	S 4.8	W 34.6	S 5.0	S 10.6	S 8.8	E 25.5	E 14.9	SE 11.4	SE 14.7
15	E 9.2	E 24.0	E 9.7	S 6.4	SE 17.6	E 11.0	E 8.7	S 9.5	N 12.8	E 13.9	SE 11.5	SE 16.7
16	S 7.8	N 14.2	SW 10.8	SE 5.1	S 15.4	S 6.9	S 12.4	S 5.6	S 11.8	S 6.4	S 6.8	SE 10.8
17	S 12.2	NW 12.2	E 17.6	SE 11.8	S 11.4	S 10.0	S 6.9	S 8.8	SW 8.4	E 4.4	S 8.2	S 7.9
18	SW 9.0	E 15.8	E 22.9	SE 34.1	S 4.0	S 4.6	S 10.6	S 7.2	SW 19.2	E 5.9	SW 8.9	SE 8.0
19	E 3.8	E 9.2	E 15.2	E 21.6	S 7.2	S 5.2	NW 11.5	E 8.0	SW 6.4	NE 8.7	NE 7.2	S 9.1
20	S 6.2	SW 15.2	SE 7.1	W 13.4	SW 8.2	S 6.7	N 21.3	S 7.6	E 14.2	NE 10.4	E 14.8	E 10.7
21	E 12.0	SW 6.5	SW 3.7	W 11.0	E 19.3	E 6.8	SE 20.1	SW 4.2	E 17.7	SW 10.9	N 10.1	E 8.8
22	E 14.0	E 11.5	E 3.8	E 9.3	E 15.9	E 9.8	SW 15.4	W 5.5	E 17.7	SE 10.4	S 13.0	SE 6.6
23	E 9.0	SE 21.3	E 6.3	SW 5.8	E 17.6	SW 4.1	E 30.2	SE 35.4	E 9.2	S 14.7	SW 8.2	E 11.5
24	SW 10.7	E 10.2	E 22.7	N 6.3	E 14.0	E 7.8	SW 19.7	N 30.1	S 10.2	E 7.0	E 5.7	S 15.4
25	NW 7.5	S 20.0	S 20.1	S 6.1	E 23.0	SE 22.1	N 18.5	N 16.0	S 6.4	E 10.2	E 11.9	S 16.9
26	SE 19.5	E 19.5	E 12.7	E 10.8	E 23.0	S 21.1	E 7.1	E 13.6	S 8.8	E 15.0	E 25.0	SE 14.2
27	SW 5.2	SW 10.2	S 9.6	E 30.6	E 18.8	E 23.5	SW 9.3	E 13.7	S 19.7	E 20.5	NE 6.8	E 13.7
28	S 6.4	S 12.0	SW 7.5	E 23.5	E 16.1	E 22.0	E 9.2	E 20.5	E 14.1	E 18.0	N 11.2	S 10.2
29	SE 15.4	S 15.3	E 11.9	E 11.5	S 11.0	E 12.4	S 9.4	N 11.8	E 10.4	E 10.8	S 11.0	SW 6.8
30		SE 23.8	S 3.1	E 15.6	S 8.0	E 9.2	S 4.2	E 18.4	E 18.5	NE 7.3	W 9.8	SE 14.3
31		NE 20.9		E 12.6		S 17.6	S 5.8		E 11.7		N 5.1	E 22.1
Month	S 10.2	SE 15.0	E 11.9	E 9.5	E 14.9	E 11.3	S 11.9	E 11.5	E 13.7	E 11.1	E 11.6	E 11.1

TABLE 25.—*Little America III, surface wind: extreme speed and direction for each day*

[Speeds corrected to true value, miles per hour]

Date	February	March	April	May	June	July	August	September	October	November	December	January
1			N 47	S 8	SW 12	SW 14	SW 26	E 13	E 36	E 18	E 24	N 17
2			N 40	E 10	E 17	E 26	W 19	E 16	E 36	E 19	SE 38	NE 23
3			E 17	E 8	E 17	E 50	E 13	S 13	E 30	SE 18	SE 36	E 17
4			NE 15	E 18	NE 24	E 23	SW 13	S 17	SE 19	S 19	E 27	SE 15
5			E 16	E 17	E 23	N 13	SW 13	W 21	S 8	S 26	E 25	E 12
6			SE 18	S 9	S 16	S 13	S 15	S 8	S 8	E 30	E 19	S 10
7			SW 26	E 10	E 26	S 13	N 15	S 17	S 24	E 23	S 9	S 23
8			SW 19	E 32	E 39	SW 17	N 17	S 17	E 20	S 12	S 10	S 17
9			S 16	E 29	E 30	N 16	E 17	SW 16	E 24	E 12	SW 11	SW 14
10			SE 20	SE 16	W 18	SW 17	E 17	SW 14	SW 17	E 9	SW 12	E 18
11			E 11	E 17	SE 44	E 33	E 35	E 18	E 24	E 14	E 14	E 19
12			SW 27	E 17	SE 42	E 11	E 26	SW 17	SE 34	E 14	SE 11	SW 11
13			E 11	S 9	E 37	E 14	W 19	E 24	SE 31	SW 16	S 10	SW 11
14			E 12	S 23	SE 47	E 9	N 17	E 21	E 26	E 19	SE 20	E 23
15			E 15	SE 10	E 30	E 22	E 20	E 15	SE 23	E 18	E 20	E 25
16			SW 24	SE 20	S 24	E 18	E 17	E 23	N 19	S 12	E 13	E 16
17			E 30	SE 45	S 19	SE 24	E 17	E 18	SW 17	N 11	SW 16	S 16
18			E 36	E 36	S 9	S 8	E 9	SE 17	SW 17	E 12	SW 17	SE 13
19			SE 24	E 26	SW 24	E 23	E 23	E 17	SW 27	NE 15	NE 13	S 16
20			SE 12	NW 23	SW 21	S 11	NW 25	E 14	SW 20	E 15	E 23	E 15
21			W 12	NE 16	E 27	SW 13	E 35	SW 13	E 28	SW 17	E 23	SE 12
22			E 10	S 14	E 20	E 14	S 26	E 10	E 22	SE 22	S 18	SE 12
23			E 17	N 13	SE 26	S 12	SE 45	SE 60	E 17	SE 20	S 16	E 18
24			E 35	S 12	NE 21	NW 12	SE 30	SE 62	SW 26	S 17	E 11	S 23
25			SW 34	E 20	NE 32	NW 12	S 30	NE 33	S 14	E 17	SE 11	S 23
26			S 22	SE 37	NE 37	E 42	S 30	S 22	E 18	E 17	SE 22	S 23
27			SW 17	E 39	E 37	SE 40	SW 15	N 22	E 25	E 20	SE 35	SE 18
28			SW 20	SE 32	E 36	SW 34	SW 20	E 26	E 21	E 29	NE 11	E 18
29			E 19	SE 34	SE 34	SE 29	E 18	E 26	E 18	E 31	N 15	E 18
30			S 7	SE 29	E 29	E 17	S 17	E 28	W 20	NE 15	NE 17	E 11
31				S 17	E 20	S 20	E 9	SE 30	NE 15		W 14	SE 19
Absolute Extreme			N 47	SE 45	SE 47	E 50	SE 45	SE 62	E 36	E 31	NW 9	E 28
Mean			19.4	20.0	26.6	20.3	21.1	21.9	23.8	18.6	SE 28	E 28
											18.0	17.2

TABLE 26a.—*Little America III, surface wind: percent of frequency, percent of movement, and mean speed (in miles per hour, corrected) from various directions, by months*

	February	March	April	May	June	July	August	September	October	November	December	January	Year
NORTH													
Percent of frequency	2.7	7.1	3.3	3.8	5.0	6.2	6.2	3.9	3.4	2.2	6.6	2.4	4.42
Percent of movement	2.0	5.7	4.6	4.0	3.4	5.1	6.6	6.2	2.9	1.1	5.1	2.1	4.13
Mean speed	7.4	11.9	16.4	11.8	10.1	9.3	12.8	18.3	12.0	5.5	9.1	9.8	11.33
NORTHEAST													
Percent of frequency	6.2	9.1	6.5	2.2	7.5	4.8	2.4	3.6	4.0	6.8	7.4	3.4	5.32
Percent of movement	5.3	10.8	12.2	2.0	7.8	5.5	1.7	6.0	3.7	6.2	6.1	4.1	6.08
Mean speed	8.8	17.7	22.2	10.4	15.5	12.8	8.5	18.9	12.4	10.1	9.6	13.5	13.85
EAST													
Percent of frequency	25.2	21.8	38.5	27.8	34.7	31.5	26.2	27.2	32.4	36.7	30.4	29.4	30.12
Percent of movement	30.1	29.8	39.8	42.8	47.3	41.5	33.3	36.9	41.0	42.8	41.7	37.3	38.77
Mean speed	12.2	20.6	12.3	16.9	20.4	14.9	15.2	15.5	17.3	13.0	16.0	14.1	15.60
SOUTHEAST													
Percent of frequency	17.5	22.9	14.4	16.0	11.5	11.2	10.5	20.8	13.7	12.4	13.4	24.7	15.76
Percent of movement	22.8	26.7	14.8	21.1	19.0	13.8	14.9	24.0	16.8	12.8	19.7	24.6	19.34
Mean speed	13.1	17.5	12.3	14.5	24.7	14.0	15.1	13.2	16.8	11.5	17.1	11.1	14.88
SOUTH													
Percent of frequency	25.3	14.9	17.0	30.8	21.8	30.1	26.5	26.8	20.3	20.1	24.6	23.8	23.50
Percent of movement	20.0	10.4	11.5	15.4	12.4	20.8	18.0	15.9	12.3	17.5	14.9	19.9	15.42
Mean speed	8.1	10.5	8.1	5.5	8.6	7.8	8.1	6.8	8.3	9.7	7.0	9.3	7.96
SOUTHWEST													
Percent of frequency	18.8	15.1	16.1	10.1	11.7	11.4	19.9	12.7	19.6	15.3	11.3	12.6	14.54
Percent of movement	17.9	10.6	15.6	8.1	6.0	9.6	18.9	8.1	17.7	14.7	8.9	9.7	12.03
Mean speed	9.7	10.6	11.5	8.8	7.6	9.5	11.3	7.3	12.3	10.8	9.2	8.5	10.03
WEST													
Percent of frequency	1.3	5.9	3.1	6.4	6.8	2.3	5.8	4.0	6.3	5.8	4.7	2.7	4.61
Percent of movement	0.5	3.5	1.4	4.8	3.9	1.4	3.4	2.1	5.3	4.5	3.1	1.6	3.05
Mean speed	3.8	8.9	5.6	8.2	8.5	6.9	7.0	6.1	11.5	7.5	7.6	6.4	8.01
NORTHWEST													
Percent of frequency	1.7	2.8	0.0	1.3	0.3	2.4	2.4	0.6	0.3	0.6	1.2	1.0	1.22
Percent of movement	1.4	2.5	0.0	1.6	0.1	2.3	3.2	0.8	0.3	0.4	0.5	0.7	1.14
Mean speed	8.1	13.4	0.0	13.3	7.0	10.6	15.7	15.8	15.5	8.5	4.2	8.0	11.40
CALM													
Percent of frequency	1.3	0.4	1.1	1.6	0.7	0.1	0.1	0.4	0.0	0.1	0.4	0.0	0.51

TABLE 26b.—*Little America, surface wind: percent of frequency, percent of movement, and mean speed (in miles per hour, corrected) from various directions, by months*

FOR THREE YEARS, COMBINED

	February	March	April	May	June	July	August	September	October	November	December	January	Year
NORTH													
Percent of frequency	1.3	3.6	3.1	3.9	4.8	3.6	3.4	3.8	5.9	5.1	7.6	8.2	4.62
Percent of movement	1.2	3.4	3.9	4.7	5.0	3.4	3.8	5.5	5.6	6.0	7.8	8.4	4.98
Mean speed	7.7	14.1	14.5	13.3	17.0	11.6	10.9	13.2	10.5	10.4	9.5	10.8	11.77
NORTHEAST													
Percent of frequency	5.4	6.6	5.4	3.5	7.8	3.6	3.5	2.6	3.3	4.5	5.3	8.0	5.00
Percent of movement	6.6	8.2	8.1	4.2	9.2	3.9	5.7	3.8	3.6	4.1	5.2	7.9	5.93
Mean speed	8.4	17.4	16.7	12.2	14.5	11.1	17.0	14.8	13.6	9.4	10.0	14.6	12.97
EAST													
Percent of frequency	32.1	35.1	37.7	33.0	39.7	19.8	23.5	25.7	38.8	38.1	31.7	28.9	31.78
Percent of movement	37.0	44.7	50.5	46.2	50.7	26.8	32.6	35.9	46.2	46.8	41.6	33.3	40.81
Mean speed	13.2	18.3	15.4	14.8	16.1	13.6	13.6	14.6	16.6	13.0	12.8	12.0	14.43
SOUTHEAST													
Percent of frequency	19.8	11.3	10.5	11.9	10.1	11.3	6.9	9.6	8.8	8.4	10.5	12.6	11.02
Percent of movement	26.3	12.8	9.8	15.0	12.9	14.8	9.2	11.3	10.2	8.6	12.9	12.8	13.04
Mean speed	13.8	15.6	10.4	11.9	15.6	16.0	12.8	11.6	13.8	10.5	12.1	11.0	12.85
SOUTH													
Percent of frequency	23.4	17.4	22.2	23.9	15.2	23.5	26.8	26.3	21.0	21.5	24.4	22.9	22.39
Percent of movement	15.4	11.6	13.3	14.5	9.8	16.9	21.4	18.4	15.0	16.2	18.1	21.4	16.15
Mean speed	7.1	9.8	6.8	6.4	8.1	7.1	7.8	7.0	8.3	8.1	7.1	9.7	7.82
SOUTHWEST													
Percent of frequency	13.1	15.7	15.0	15.0	16.8	25.4	21.2	18.9	15.5	14.0	12.0	15.2	16.04
Percent of movement	10.1	11.9	8.2	10.3	10.1	23.0	17.5	18.0	13.3	11.4	9.5	10.1	12.71
Mean speed	7.6	10.8	7.9	7.4	7.0	8.7	8.3	9.3	10.4	8.6	8.0	12.2	8.62
WEST													
Percent of frequency	3.6	8.2	3.5	6.0	3.9	9.8	11.5	3.0	7.6	6.5	6.4	6.1	6.89
Percent of movement	2.6	5.2	2.8	4.3	2.1	6.4	8.0	6.2	5.5	5.3	4.1	4.1	4.70
Mean speed	7.3	9.1	7.9	6.6	6.2	6.8	6.4	6.5	9.1	8.1	6.2	6.9	7.24
NORTHWEST													
Percent of frequency	0.6	1.7	0.0	1.5	1.5	1.5	1.7	1.4	1.0	1.6	1.1	2.3	1.14
Percent of movement	0.5	1.8	0.0	0.6	0.2	1.5	1.8	1.0	0.6	1.5	0.9	1.9	1.00
Mean speed	7.7	10.8	0.0	5.3	5.4	10.2	10.0	9.1	7.8	10.6	7.0	9.4	7.59
CALM													
Percent of frequency	0.9	0.3	2.5	2.2	1.4	1.5	1.4	1.6	0.3	0.3	0.9	0.1	1.12

TABLE 26c.—*Bay of Whales, surface wind: average speed and percentage distribution of direction frequency*

FOR FOUR YEARS' OBSERVATIONS*

	February	March	April	May	June	July	August	September	October	November	December	January	Year
Average speed													
Meters per second	5.1	6.3	5.0	4.3	5.2	4.6	4.3	4.6	5.7	4.8	4.4	4.5	4.84
Miles per hour	11.4	14.1	11.2	9.6	11.6	10.3	9.6	10.3	12.8	10.7	9.8	10.1	10.83
Percent of Frequency													
North	1	4	3	3	4	3	3	3	6	4	6	6	3.8
Northeast	5	7	7	3	8	3	5	7	6	5	6	7	5.8
East	32	35	35	30	41	25	24	27	36	36	34	29	32.0
Southeast	20	11	9	10	8	11	6	8	10	10	10	11	10.3
South	23	17	21	23	14	20	23	23	18	19	20	19	20.0
Southwest	13	16	15	15	14	23	20	17	13	16	12	16	15.9
West	4	8	3	5	3	8	10	8	6	5	5	5	5.8
Northwest	1	2	0	0	0	1	2	2	1	2	1	1	1.1
Calm	1	0	7	11	8	6	7	5	4	3	6	6	5.3

*1940–41: Original data.
1934–35 and 1929–30: G. Grimminger: (Meteorological Results of the Byrd Antarctic Expeditions, II, MONTHLY WEATHER REVIEW, Supp. 42, pp. 82–84.
1911–12: W. Meinardus: Klimakunde der Antarktis. *Handbuch der Klimatologie IV*, U. 116–119.

TABLE 27a.—*Little America III, surface wind: mean and resultant directions and speeds (miles per hour), with stabilities and component of resultant wind, and other data, by months*

	February	March	April	May	June	July	August	September	October	November	December	January	Year
Prevailing direction	S	SE	E	S	E	E	S	E	E	E	E	E	E
Mean direction	139°	135°	128°	149°	130°	139°	160°	144°	147°	134°	130°	140°	138°
Resultant direction	140°	117°	113°	120°	110°	121°	141°	119°	130°	127°	117°	128°	123°
Resultant speed	6.6	7.3	6.0	6.6	9.2	6.0	4.9	6.5	6.6	5.8	6.6	7.2	6.39
Mean speed	10.2	15.0	11.9	11.0	14.9	11.3	11.9	11.5	13.7	11.1	11.6	11.1	12.12
Stability (percent)	65	49	50	60	62	53	41	57	48	52	57	65	62
N-S component	4.3S	3.3S	2.4S	3.2S	3.2S	3.0S	3.8S	3.2S	4.2S	3.5S	3.0S	4.3S	3.44S
W-E component	3.6E	6.5E	5.5E	5.2E	8.7E	5.1E	3.1E	5.7E	5.1E	4.6E	5.9E	5.4E	5.38E
Mean maximum wind	17.0	24.0	20.6	19.4	25.9	19.6	20.6	21.3	22.8	17.7	17.6	16.9	20.29
Absolute extreme:													
Direction			*N	SE	SE	E	SE	SE	E	SW	SE	E	SE
Speed			47	45	47	50	45	62	36	30	38	28	62
Number of days with:													
Maximum above 29	1	8	6	4	10	5	4	4	4	0	3	0	49
Mean above 19.9	1	7	5	5	7	5	4	3	2	1	4	1	45
Mean below 5.1	2	0	3	6	1	3	1	2	0	2	0	0	20

*Interpolated hourly value.

TABLE 27b.—*Little America III, surface wind: mean and resultant directions and speeds (in miles per hour), with stabilities and components of resultant wind, and other data, by months, for three years, combined*

	February	March	April	May	June	July	August	September	October	November	December	January	Year
Prevailing direction	E	E	E	E	E	SW	S	S	E	E	E	E	E
Mean direction	135°	135°	134°	143°	123°	178°	175°	166°	138°	133°	136°	131°	143°
Resultant direction	125°	113°	108°	117°	107°	154°	145°	134°	119°	116°	117°	112°	121°
Resultant speed	7.0	6.7	6.6	5.4	7.7	5.0	3.8	4.2	5.6	4.9	4.8	4.9	5.38
Mean speed	11.4	14.0	11.6	10.6	12.3	10.1	9.9	10.4	12.0	10.5	9.7	10.5	11.08
Stability (percent)	61	48	57	51	65	50	38	40	47	47	49	45	49
N-S component	4.70S	2.61S	2.02S	2.62S	2.12S	4.18S	3.08S	2.94S	2.68S	2.16S	2.17S	1.90S	2.74S
W-E component	5.74E	6.17E	6.31E	5.15E	6.96E	2.13E	2.19E	3.03E	4.86E	4.30E	4.26E	4.49E	4.46E
Mean maximum wind	20.0	24.8	21.5	20.5	23.2	20.1	19.2	20.3	20.7	18.2	16.0	17.2	20.07
Absolute extreme:													
Direction	SE	E	E	*SE	SE	SE	♯SE	SE	SE	N	SE	SE	SE
Velocity	40	53	47	47	47	59	45	62	49	34	38	46	62
Year	1934	1929	1934	1934	1940	1934	1940	1940	1934	1934	1940	1929	1940
Average number of days with:													
Maximum above 29	1.7	10.3	6.0	4.3	7.3	4.7	3.7	4.3	3.0	1.3	1.3	0.5	48.7
Mean above 19.9	0.9	6.0	4.0	2.3	3.3	2.7	3.0	2.0	2.3	1.0	1.3	0.7	29.0
Mean below 5.1	1.0	1.0	3.3	4.0	2.7	6.3	5.3	4.0	2.0	0.7	2.3	0.3	33.3

* Also E47 in 1934.
♯ Also E45 in 1934.

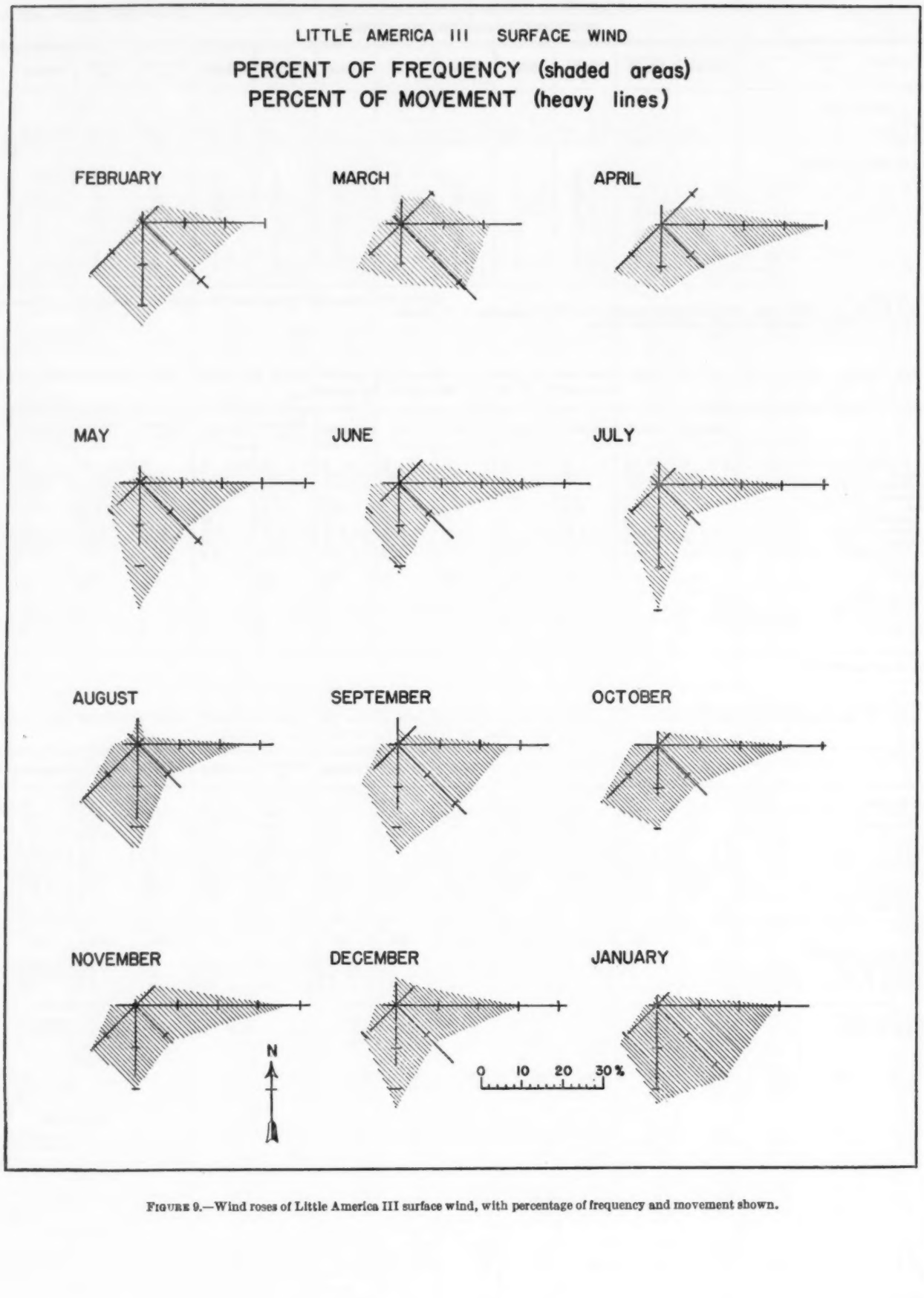

FIGURE 9.—Wind roses of Little America III surface wind, with percentage of frequency and movement shown.

PART VII. SNOW ACCRETION OBSERVATIONS

EXPLANATORY NOTE

Accretion of snow was determined daily from the readings of four pairs of graduated hickory poles set upright in the snow, 180 to 350 meters distant in the four cardinal directions from the main camp building at Little America III. The poles, 1 by ½ inch and 8 feet long, were secured by angle irons to a base of crossed boards, 1 by 4 inches and 2½ feet long. These bases were placed securely on a hard snow layer at the bottom of shallow holes which were then filled in.

This program was conceived and carried out by Dr. F. A. Wade, senior scientist of the expedition, following the methods used by R. Moss in North East Land ("The Physics of an Ice Cap," *Geographical Journal*, vol. 42, No. 3, Sept. 1938). It is only by such snow gage readings that any reliable estimate of the annual accretion of snow can be obtained, since precipitation has never been measured satisfactorily in the Antarctic due to the strong winds which accompany most depositions of snow. Although from a meteorological standpoint it is important to distinguish precipitation from drift snow, in practice the original source of the water is of far less concern than the actual amount deposited.

Four of the gages were set up on February 16, 1940, and readings began 3 days later. By early April, variations in the day-to-day readings of these four poles had become so great that four additional gages were erected near the first set, again in each of the cardinal directions. Gage N–2 was set 10 meters north of N–1; E–2, 10 meters east of E–1; S–2, 10 meters south of S–1, and W–2, 5 meters west of W–1.

Readings were made daily between 0300 and 0600 G. M. T. The mile-long trail between the gages was marked with flags 20 feet apart so that readings could be obtained even during blizzards, and few observations were missed.

Increases in surface elevation shown by the readings are due to the accumulation of new snow, deposition of hoarfrost, or to drift snow; decreases are due to ablation, deflation, or settling.

TABLE 28 presents the daily readings of each of the eight gages, in centimeters, together with remarks as to weather conditions. These remarks have not been checked against those in the table of 6-hourly observations, and some discrepancies may exist. The actual values are of no significance, since the base of each gage was set at a different depth below the surface; it is the change from day to day which is important.

TABLE 29 shows the daily mean snow accretion at Little America III, referred to an arbitrary zero level as of the first day of observation. These were obtained by averaging the day-to-day changes of the readings of the eight gages. The total accretion during the 348 days of observation was 170 cm., but a total decrease of 85 cm. was noted, making the net increase just 85 cm. Since the density of the uppermost meter of snow is around 0.35, this represents a deposition of about 30 cm. of water, or 12 inches, due to precipitation and drift during 11½ months. By far the greatest part of this deposition came during March, June, and July.

INDIVIDUAL DAILY SNOW GAGE READINGS

TABLE 28.—*Daily snow accretion gage readings in centimeters, Little America III*

FEBRUARY 1940

Date	N-1	N-2	E-1	E-2	S-1	S-2	W-1	W-2	Remarks
19	30	------	35.5	------	30	------	26	------	
20	30	------	35.5	------	30	------	26	------	
21	34	------	38	------	34.5	------	30	------	Snowfall.
22	33	------	35	------	31	------	28	------	Drifting.
23	33	------	35	------	32	------	29	------	
24	33	------	35	------	32.5	------	29	------	
25	33	------	34.5	------	31	------	32	------	Light snowfall.
26	34	------	44	------	34	------	36	------	Blizzard.
27	38	------	41	------	33	------	32	------	
28	38	------	41	------	33	------	32	------	Rime.
29	32	------	46	------	31	------	31	------	Drifting.

MARCH 1940

1	------	------	------	------	------	------	------	------	Snow and drift.
2	46	------	47	------	36	------	33	------	
3	------	------	------	------	------	------	------	------	No readings—Blizzard with drift.
4	------	------	------	------	------	------	------	------	No readings—Blizzard with drift.
5	35	------	37.5	------	48	------	31	------	
6	34	------	38	------	46	------	31.5	------	
7	34	------	38	------	47	------	31.5	------	
8	34	------	38	------	47	------	31.5	------	
9	32.5	------	36	------	44	------	31.5	------	
10	32	------	36	------	43.5	------	33	------	
11	------	------	------	------	------	------	------	------	No readings—Blizzard—Heavy Drift.
12	------	------	------	------	------	------	------	------	No readings—Blizzard—Heavy Drift.
13	49	------	57	------	56	------	51	------	Light Drift.
14	49	------	57.5	------	55	------	51	------	
15	48	------	57	------	56	------	51	------	Drizzle.
16	51.5	------	59	------	58	------	51	------	
17	52	------	60	------	58	------	51	------	
18	53	------	59	------	60	------	51	------	
19	54	------	60	------	60	------	52	------	Snowfall.
20	55	------	60.5	------	61	------	52	------	
21	55.5	------	63	------	60	------	52	------	
22	54.5	------	62	------	60	------	52	------	
23	61	------	72	------	60	------	59	------	Blizzard E.
24	56	------	63	------	60	------	53	------	Blizzard.
25	57	------	63	------	61.5	------	52.5	------	
26	71	------	73	------	60	------	53	------	Drift.
27	63	------	67	------	72.5	------	55	------	Drift.
28	63	------	67	------	72	------	64	------	
29	63	------	67	------	72.5	------	64	------	
30	62	------	68	------	73	------	66	------	
31	56	------	79	------	84	------	52	------	Drift.

APRIL 1940

Date	N-1	N-2	E-1	E-2	S-1	S-2	W-1	W-2	Remarks
1	60	------	79	------	72	------	60	------	Snowfall and drift.
2	72	------	75	------	------	------	74	------	Drift.
3	68	------	75	------	71	------	60	------	
4	68	------	77	------	71	------	59	------	
5	68	21	76	------	71	------	59	23	
6	68	19	75	------	71	------	59.5	24	
7	68	20	77	21	71	18.5	65	24	
8	68	21	85	20	72	18	60	22	
9	68	21	77	16	71	17.5	59	22	
10	68	21	77	17	71	17	59	22	
11	67.5	22	77	19	72	18	59.5	23	
12	68	22	76	19	72	17.5	59	23	
13	68	21.5	75	19	71	17	59	22	
14	68	21	75	18	73	19	59.5	22	
15	68	21	77	19	72	18	60	23	Snowfall.
16	70	22	78	21	71.5	19	61	23	
17	68	21	75	20.5	71	17	60	23	Wind.
18	------	------	------	------	------	------	------	------	No readings—blizzard—drifting.
19	69	22	76	20	72	26.5	60	24	Drifting.
20	69	22	77	20	72.5	26.5	61	27	
21	70	22	76	20	72.5	28	61.5	26.5	Snowfall.
22	70	22	77	20.5	72.5	26.5	61.5	26.5	Rime.
23	72	22.5	77	22	73	27	62	27	Rime.
24	70	22	76	20	72	26.5	67	25	
25	70	22	76	20	71	26	61	24	Blizzard.
26	70	22	75	20	71	26	60	23	Light snowfall.
27	70	22	76.5	20.5	71.5	26.5	61	25	Snowfall.
28	69.5	21	76.5	20	71.5	26.5	61	25	Snowfall.
29	72.5	21	77	22	77	26	61	25	Light drift.
30	72	22	78	20.5	72	26.5	61	25	

TABLE 28.—*Daily snow accretion gage readings in centimeters, Little America III*—Continued

MAY 1940

Date	N-1	N-2	E-1	E-2	S-1	S-2	W-1	W-2	Remarks
1	72	22	77	21	72	28	61	25	
2	72	22	76.5	22.5	72	28	60	26	
3	72.5	22	77	21	72	28	61	27	
4	72	22	77	21	72	28	61	28	Light rime.
5	71	22	77	22.5	71	26.5	61	28	Rime—blizzard.
6	70	22	77	23	72	26.5	61	28	
7	70.5	22	77	22.5	72	26.5	60	25	
8	71	22	77	22.5	72	26.5	61	25	
9									No readings—blizzard—Many erosional sastruggi formed.
10	69	20	75	20	71	25	64	24	
11	69	21	75	20	71	26	64	24	
12	70	21	76	20	72	26	64	24	
13	70	22	77	20	71	28	64	24.5	Light drift.
14	70	22	77	20	71	28	64	24.5	
15	70	22	77	20	71	29	64	24.5	
16	70	22	77	20	71	28.5	64	24.5	
17	69	21	77	20	72	27	64	24.5	Blizzard—drift.
18	68	20	104	25	71	25	60	22.5	Blizzard—drift.
19	74	31	92	23	72	26	63	30	Light snowfall.
20	78	31	92	23	72	28.5	63	31	Heavy snowfall and drift.
21	77	31	93	23	79	27	63	31	Snowfall.
22	78	31	94	23	80	26.5	64	31	
23	79	30	94	23	80	26.5	64	31	Hoar frost.
24	78	31	94	24	80	27	63	31	
25	78	31	94	24	80	27	63	31	
26	74	31	97	22	81	26	68	30	Blizzard.
27	74	29	92	21	72	26	63	29	Blizzard.
28	80	30	92.5	28	84	28	63	29	Snowfall.
29	78	29	92	30	88	28	61	29	Blizzard—snowfall.
30	76	29	92	27	88	28	63	30	
31	74	29	97	25	91	27	63	29	

JUNE 1940

1	78	29	92	26	90	31	63	29	
2	77	29	92	26	89	31	63	29	
3	76	29	93	27	88	30	63	29	
4	77	28	94	26	88	30	63	29	
5	78	29	92	27	89	29	63	29	Drift.
6	76	28	92	26	96	28	66	29	Drift.
7	77	29	92	26	96	28	66	29	
8	78	29	91	26	84	32	62	29	
9	74	28	90	26	88	36	62	28	Blizzard.
10	72	29	100	28	83	36	63	29	Blizzard.
11	71	29	100	28	83	34	63	29	
12	74	28	90	31	81	36	63	28	Blizzard.
13	80	28	97	31	77	36	63	34	Blizzard.
14	74	28	91	40	83	36	63	27	Blizzard after 12 hours calm.
15	75	28	94	48	86	34	63	28	Blizzard and snowfall.
16	87	28	122	44	87	45	66	30	Blizzard.
17	92	*28*	121	44	87	44	66	*29*	Figures in italic not in Sastrugi.
18	92	28	121	44	87	44	66	29	
19	92	28	121	44	87	44	66	29	
20	91	28	121	44	86	44	66	29	
21	91	28	121	44	86.5	44	66	29	
22	89	28	121	44	86	41	66	29	Drift.
23	88	28	120	44.5	90	44	65	29	Drift.
24	86	28	120	43	90	48	65	28	Snowfall followed by drift.
25	85	28	120	44	90	48	64.5	29	Snowfall—drift.
26	91	28	118	44	102	48	75	28	Blizzard.
27	93	35	126	42	90	48	71	43	
28	91	28	116	44	88	46	65	29	
29	89	28	116.5	52	87	47	65	29	
30	91	28.5	116.5	52	90	46	66	29	Snowfall.

JULY 1940

1	91	28	116.5	53	−90	46	66	30	
2	84	29	116.5	53	90	46	67	30	
3	81	28	116	53	89	45	65	28	Blizzard.
4	98	54	130	53	102	53	78	50	Blizzard—Heavy snow fall, thick layer soft snow.
5	104	51	128	53	102	57	80	45	Wind-surface more compacted.
6	104	51	128	53	102	57	81	45	Wind-surface more compacted.
7	104	51	127	53	102	57	81	45	Hoar frost.
8	104	51	127	53	101	58	81	45	
9	103	51	127	53	101	57	80	44	Drift.
10	102	47	123	54	102	52	84	44	
11	103	43	123	54	101	52	83	44	
12	97	54	115	54	100	48	83	46.5	Blizzard—snow, erosional Sastrugi.
13	86	54	115	54	100	48	83	46.5	Wind.
14	87	54	115	54	100	48	83	46.5	Hoar frost.
15	87	54	115	54	100	49	83	46.5	
16	118	51	115	54	100.5	58	80	46.5	Drift—snowfall.
17	120	52	117	53	100	58	80	46.5	Light drift.
18	110	59	115	53	101	51	86	46	
19	110	58	115	53	101	51	86	46	
20	110	58	115	53	101	50	86	46	Snowfall.
21	110	58	115	53	102	51	86	46	Light snowfall.
22	110	58	115	53	102	52	86	46	Light snowfall.
23	110	58	115	53.5	102.5	52.5	86	46.5	Light snowfall.
24	110	59	115	53	102	53	86	46.5	
25	110	59	115	53.5	102.5	53	86	46.5	Hoar frost.
26	105	36	118	67	110	46	64	28	Blizzard.
27	95	39	123	64	98	53	76	29	Blizzard.
28	93	36	117	68	112	64	63	30	Blizzard.
29	105	46	125	55	102	52	80	32	Blizzard.
30	106	46	126	57	100	51	85	38	Snowfall.
31	105	46	125	58	100	51	85	38	

AUGUST 1940

Date	N-1	N-2	E-1	E-2	S-1	S-2	W-1	W-2	Remarks
1	105	45	124	53	101	53	84	33	
2	105	45	122	53	101	52	84	34	
3	105	45	123	54	100.5	52	84	34	
4	105	45	122	55	100	52	83	35	
5	105	45	122	55	100	52	83	35	
6	105	45	122	55	100	52	83	35	
7	105	46	124	55	100	52	84	36	Snowfall-light drift.
8	105	45	124	56	101	52	84	36	Light drift.
9	104.5	44.5	124	53	100	52	84	36	Drift.
10	104	44	123	54	100	52	84	35	Drift.
11	104	44	126	54	100	50	89	34	Drift.
12	104	44	126	54	100	51	87	36	Light snowfall.
13	104	44	126	54	100	51	87	36	
14	104	44	126	55	100	51	86	36	Light drift.
15	104	44.5	126	55	100	52	87	38	
16	104	44	126	55	100	52	87	40	Light drift.
17	104	44	125	54	100	52	86	42	
18	104.5	44	125	54	100	52	87	41	Light drift.
19	105	43	126	55	101	52	88	41	Light snowfall, drifting.
20	105	45	124	58	108	56	86	44	Blizzard.
21	104	44	125	55	100	53	86	36	Blizzard.
22	104	44	125	55	100	53	86	36	Blizzard.
23	104	44	130	55	100	53	86	36	Drift.
24	104	44	125	54	100	52	86	36	Blizzard.
25	105	44	125	54	103	52	85	35	Blizzard.
26	104	44	125	54	103	52	85	35	Light drift.
27	104	44	125	54	103	52	85	35	
28	104	44	125	54	103	52	85	35	
29	104	44	125	54	103	52	85	35	
30	104	44	125	54	103	52	85	35	
31	104	44	125	54	103	52	85	35	

SEPTEMBER 1940

1	105	44	125	54	103	52	85	35	
2	105	44	125	54	102	52	85	35	
3	105	44	124.5	54	102.5	52	85	35	
4	105	44	124.5	54	102.5	52	85	35	
5	104.5	44	124.5	54	102.5	52	85	35	
6	104.5	44	124.5	54	102.5	52	85	35	
7	104.5	44	124.5	54	102.5	52	85	35	
8	104.5	44	124.5	54	102.5	52	85	35	
9	104.5	44	124.5	54	102.5	52	85	35	
10	104.5	44.5	124.5	54	102.5	52.5	85	35	Light drift.
11	104.5	44.5	124.5	54	102.5	52.5	85	35	
12	104.5	44.5	124.5	54.5	102.5	52.5	85	35	
13	104.5	44.5	124.5	54.5	102.5	52.5	85	35	Snowfall—light drift.
14	104	44	124.5	54.5	102.5	52.5	85	35	
15	104	44	124.5	54.5	102.5	52.5	85	35	
16	104	43.5	124.5	54.5	102.5	52.5	85	35	
17	104	43.5	124.5	54.5	102.5	52.5	85	35	
18	104	43.5	124.5	54.5	102.5	52.5	85	35	
19	104	43.5	124.5	54.5	102.5	52.5	85	35	
20	104	43.5	124.5	54.5	102.5	52.5	85	35	
21	104	44	124.5	54.5	102.5	52.5	85	35	
22	104	44	124.5	54	102	52	85	35	
23	104	44	124.5	54	102	52	85	35	
24	103.5	43.5	124	58	100	52	84.5	32	Drift.
25	103.5	43	133	54	100	51.5	85	33	Drift.
26	104	43	124.5	54	100	51.5	83	35	Drift.
27	104	43	124	54	100	51.5	83	35	Drift.
28	104	43	123.5	55	100	51	83	35	Drift.
29	104	43.5	125	53	105	51	83	35	Drift.
30	104	43	125	53	105	52.5	84	36	Drift.

OCTOBER 1940

1	104	43.5	125	55	105.5	52.5	84	34	Snowfall.
2	104	43	125	53	106	52	84	39	Drift.
3	104	43	125	55	105	53	84	40	
4	104	43	125	55	105	52	84	42	
5	105	43	126	55	105	53	84	42	
6	105	43	126	55	105	53	84	42	
7	105	43	125	55	105	53	84	42	Surface drift.
8	105	43	125	55	105	53	84	42	Surface drift.
9	105	43	125	54	105	53	84	42	
10	105	43	125	54	105	52	84	42	
11	105	43	125	54	105	52	84	42	Drifting.
12	104	43	125	53	105	51	84	42	Strong wind no drift.
13	103.5	43	123	53	104	51	84	41	
14	107.5	43	125	53	104.5	51	84	41	Drifting.
15									Record lost.
16									Record lost.
17									Record lost.
18									Record lost.
19									Record lost.
20									Record lost.
21									Record lost.
22									Record lost.
23	105	45	128.5	57.5	109.5	57	85	43	
24	104	44	128	57	110	56	84	42	Light drift.
25	104	44	127.5	56.5	110	55.5	84	42	
26	104	43	127	57	110	55.5	84	42	
27	105	44	127	57	110	56	84	42	
28	105	44	127	55	110	56	84	42	Drift.
29									Record lost.
30									Record lost.
31									Record lost.

TABLE 28.—*Daily snow accretion gage readings in centimeters, Little America III*—Continued

NOVEMBER 1940

Date	N-1	N-2	E-3	E-2	S-1	S-2	W-1	W-2	Remarks
1	104	45	127	55	110	55.5	84	44	Light drift.
2	104	45	127	56	110	55.5	84	43.5	
3	104	43.5	128	57	109.5	55	84	43.5	Light drift.
4	104	43.5	128	57	109.5	55	84	43.5	
5	104	43.5	127.5	56	109.5	55	84	42	Light drift.
6	104	43	128	57	109	55	84	42	
7	104	43	128	57	109	55	84	42	
8	104	43	128	56	109	55	84	42	
9	103	43	127	55	109	55	84	42	
10	103	43	127	55	109	55	84	42	
11	103	42.5	127	55	109	54.5	84	42	
12	104	43	127	54	108.5	54.5	83.5	42	
13	104	43	127	54	108	54	83.5	42	
14	103	43	127	55	108	54	83	41.5	
15	103	43	127	55	107.75	54	83	41.5	Drift.
16	103.5	43.5	127	57.5	109	55.5	84.5	44	Surface covered by light, soft snow.
17	103	43	126.5	56	108.5	55	84	43.5	
18	102	42	126	56	108	54	84	43	
19	102.5	42	126	56	108	54	83	43	
20	102	42	127	56	108	54	83	44	
21	103	43	127	56.5	108	55.5	84	43	
22	102	43	126	56	108	55.5	84	42	
23	101.5	43	126	54.5	106	54	82	43	
24	101.5	43	126	55.5	106	54	82	43	
25									
26	101	43	126	55	107	54	81	42	
27	100	43	125	55	107	54	81	42	
28	100	43	126	55	106	54	81	42	Heavy ground drift.
29	100	43	127	56	108	63	82	46	
30	100	43	126	56	108	63	81	46	

DECEMBER 1940

1	100	45	126	46	108	62	81	45	
2	100	44	126	55	108	62	81	46	
3	100	43	126	55	105	56	80	41	Heavy ground drift.
4	100	43	123	61	104	54	80	41	Heavy ground drift.
5	99	42	124	59	110	54	80	41	
6	99	43	122	59	108	53	79	41	
7	99	41	122	58	108	53	79	41	
8	99	41	122	58	108	53	78	41	
9	99	41	124	59	107	53	78	41	
10	99	41	124	59	107	53	78	41	
11	99	41	124	59	107	53	78	41	
12	98	42	123	58	107	52	78	41	
13	98	42	123	58	107	52	78	41	
14	99	41	123	59	107	52	79	41	
15	99	41	121	61	107	52	79	41	
16	98	41	120	60	106	52	78	40	
17	98	41	121	60	107	52	78	41	
18	98	41	121	60	107	52	78	41	
19	98	41	121	60	107	52	78	41	
20	98	41	120	60	106	52	78	40	
21	99	42	123	60	106	53	79	40	Heavy snowfall.
22	99	43	128	61	108	55	81	42	Snowfall.
23	100	42	128	61	107	54	80	41	
24	100	43	127	61	106	54	80	41	
25	100	42	127	61	106	54	80	41	
26									No observation—Blizzard.
27	103	41	123	61	106	57	79	47	
28	105	44	123	63	107	58	80	49	Snowing, large flakes.
29	105	44	125	63	107	59	78	48	
30	105	42	125	63	107	59	78	48	
31	105	44	125	62	108	59	80	50	

JANUARY 1941

1	105	44	126	62	108	59	80	50	Heavy snowfall drift.
2	105	50	129	63	108	60	82	49	Heavy snowfall-drift.
3	107	51	131	63	109	60	81	------	W-2 knocked down by dog team.
4	108	47	127	63	116	------	88	63	S-2 knocked down by Beechcraft.
5	109	47	127	63	114	60	87	63	
6	109	47	127	63	114	60	87	63	
7	109	47	127	63	114	60	87	63	
8	107	48	126	62	114	59	85	61	
9	107	47	127	61	113	59	85	61	
10	107	47	127	61	113	59	85	61	
11									No observations.
12									No observations.
13									No observations.
14									No observations.
15									No observations.
16	106	45	124	61	111	56	85	59	
17									No observations.
18	106	45	124	61	111	56	84	59	
19									No observations.
20									No observations.
21									No observations.
22									No observations.
23									No observations.
24									
25									No observations.
26									No observations.
27									No observations.
28									No observations.
29									No observations.
30									No observations.
31	105	54	123	64	110	59	82	60	

MEAN DAILY SNOW ACCRETION

TABLE 29.—*Snow accretion: mean daily values in centimeters*

[Averages of daily change in surface level shown by four pairs of gages]

Date	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
1	------	------	−1.50	0.10	0.25	0.25	−1.25	0.00	0.10	0.20	0.00	0.10
2	------	5.50	7.30	0.10	−0.25	−0.60	−0.25	0.00	0.30	0.10	−0.10	1.50
3	------	*	−4.75	0.20	−0.10	−1.30	0.20	−0.10	0.40	−0.10	−2.00	0.70
4	------	*	0.25	0.10	0.00	14.25	0.00	0.00	0.10	0.00	0.00	1.00
5	------	−2.60	−0.25	−0.25	−0.10	0.25	0.00	0.00	0.40	−0.40	0.40	−0.25
6	------	−0.50	−0.10	0.00	0.60	0.90	0.00	0.00	0.00	0.10	−0.60	0.00
7	------	0.25	1.90	−0.50	0.25	−0.10	0.60	0.00	−0.10	0.00	−0.40	0.00
8	------	0.00	0.20	0.20	−1.50	1.00	0.10	0.00	0.00	−0.10	−0.10	−1.00
9	------	−1.60	−1.80	*	0.10	−0.50	−0.60	0.00	−0.10	−0.40	0.25	−0.25
10	------	0.10	0.10	−2.00	1.00	−1.00	−0.20	0.10	−0.10	0.00	0.00	0.00
11	------	*	0.75	0.25	−0.40	−0.60	−0.60	0.00	0.00	−0.10	0.00	*
12	------	*	−0.20	0.40	−1.00	−0.70	0.10	0.00	−0.40	−0.10	−0.40	*
13	------	19.10	−0.40	0.40	1.90	−1.40	0.00	0.00	−0.50	−0.10	0.00	*
14	------	−0.10	0.40	0.00	−0.50	0.10	0.00	−0.10	0.80	−0.10	0.25	*
15	------	−0.10	0.30	0.10	1.75	0.10	0.60	0.00	*	0.00	0.00	*
16	------	1.70	1.00	0.60	6.63	4.30	0.20	0.00	*	1.25	−0.75	−1.60
17	------	0.40	−1.00	−0.30	0.25	0.40	−0.10	0.00	*	−0.60	0.40	*
18	------	0.50	*	2.00	0.00	−0.70	0.10	0.00	*	−0.60	0.00	−0.10
19	------	0.75	1.75	2.25	0.00	−0.10	0.40	0.00	*	−0.10	0.00	*
20	0.00	0.50	0.70	1.00	−0.25	−0.10	1.90	0.00	*	0.20	−0.40	*
21	3.75	1.00	0.00	0.70	0.06	0.25	−2.90	−0.10	*	0.50	0.90	*
22	−2.50	−0.50	0.00	0.30	−0.70	0.10	0.00	−0.20	*	−0.40	1.90	*
23	0.50	6.00	0.75	0.00	0.56	0.25	0.60	0.00	2.70	−0.80	−0.50	*
24	0.10	−5.00	−0.50	−0.10	0.06	0.00	0.75	−0.40	−0.70	0.10	−0.10	*
25	−1.00	0.50	−1.10	0.00	−0.06	0.10	0.25	0.70	−0.20	------	−0.10	*
26	4.40	5.75	−0.40	0.40	3.30	−6.45	−0.10	−1.00	−0.20	−0.25	*	*
27	−1.00	0.10	0.75	−2.70	1.75	0.40	0.00	0.00	0.40	−0.25	0.75	*
28	0.00	2.25	−0.25	2.70	−0.10	0.75	0.00	0.00	−0.10	0.00	1.75	*
29	−1.00	0.10	1.25	0.00	0.80	5.00	0.00	0.60	*	2.25	0.00	*
30	*	0.60	0.00	0.10	0.70	1.50	0.00	0.40	*	−0.25	−0.25	*
31	*	0.50	------	0.50	------	−0.10	0.00	------	*	------	0.75	1.40

* Indicates no observation. Figures for first observation following one or more blanks are total change since last readings.

PART VIII. SUBSURFACE TEMPERATURES

EXPLANATORY NOTE

Temperature of the Ross Shelf Ice was measured at various depths down to 41 meters by electric thermometers, placed in a series of holes drilled in the snow and ice on the north side of the campsite at Little America III, 30 meters above sea level.

The thermometers used were purchased for the Expedition by the National Bureau of Standards from the Leeds & Northrup Co., and were modified slightly from the standard "thermohm" manufactured by that company for a variety of purposes. Each resistance unit was connected integrally to its three-wire rubber-covered cable; the cables were of varying lengths, for the various depths. All led to a selector switch mounted in a shelter, which in turn was connected to a balanced Wheatstone bridge with two scales, both graduated to 0.2° C., which could be estimated to the nearest 0.01° C.

Observations began March 18, 1940, with thermometers just above the surface and at 1, 2, 3, and 5 meters; by April 19, additional thermometers were in operation at 10, 15, 20, 25, 30, 36, and 41 meters; on May 3, the installation was completed with thermometers at ¼, ½, and 4 meters as well. Because the thermometers were set in individual holes at different times, with the actual surface level changing continually due to accretion and ablation, the relative and absolute depths are uncertain. Each thermometer was set at the correct depth below the surface as of date of installation—but the surface rose nearly a meter during the 6 weeks between the first and last installations. Thus, the final installation, on May 3, was of thermometers at ¼, ½, and 1 meter. The instruments already installed at 1, 2, and 3 meters were summarily redesignated as 2, 3, and 4 meters, but no change was made in the identification of the 5-meter and lower thermometers. Furthermore, drifts continued to raise the surface during the year, so that the various thermometers were at varying depths.

Readings of the thermometers were made four times daily for the first 7 weeks, thrice daily for the next 3 weeks, twice daily for 10 weeks, and once daily thereafter, as the constancy of temperatures became apparent. Measurements were discontinued on January 20, 1941. In the observation, Dr. Wade was assisted by Dr. R. G. Frazier, medical officer; during their absence on a spring field trip readings were made by Mr. M. A. Wiener, auroral and magnetic observer.

TABLE 30, *Daily Subsurface Temperature Readings.* Actual temperature readings have been arranged tabularly by Dr. Wade. All values are in degrees centigrade below zero. Depths of the thermometers are not exactly those indicated, for reasons given above.

TABLE 31, *Subsurface Temperature Summary.* Mean subsurface temperatures have been computed by the meteorologist for the same 14-day periods as those used for the radiosonde data. Despite the progressive increase in depths, and the possible advisability of adding 1 meter to all depths below 4 meters, no changes have been made in the original data. Because readings after August 15 were made only once daily, between 1200 and 1800 GMT (0100 and 0700, local time), the means are based on only one reading per day, between those hours, for the entire series. Since the individual readings appear to contain numerous errors, temperatures of marked variance with their neighbors, both in time and space, were discounted, and a good many of the final values represent modes rather than arithmetic means. In the table, the first line (Air) is the mean air temperature for the day, obtained from the daily readings of maximum and minimum thermometers in the standard meteorological shelter about 600 feet south of the point of subsurface temperature observation. The second line (SFC) represents the readings of one of the electric thermometer's placed without any kind of shield, about 10 cm. above the snow surface, but occasionally drifted over for several days at a time. The marked variation between the "Air" and "SFC" readings during spring and summer (periods 15 to 19) probably is due to absorption of solar radiation, and to the fact that the "Air" values are means for the day while the "SFC" values are spot readings in the early morning.

INDIVIDUAL DAILY READINGS

TABLE 30.—*Daily subsurface temperature readings, Little America III*

[Temperatures in degrees Centigrade below zero]

1940 GMT	Depth															
	8	0.25	0.50	1	2	3	4	5	10	15	20	25	30	36	41
Mar. 18 1430				11.6	15.8	17.5									
1700	7.5				15.9	17.5									
2100	5.9			11.6	15.9	17.5		19.7							
2400	3.3			11.6	15.8	17.5		19.8							
Mar. 19 1200	2.6			11.6	15.8	17.6		19.8							
1600	2.0			11.8	15.9	17.6		19.9							
2015	3.1			11.7	15.8	17.6		19.9							
2408	3.1			11.8	15.9	17.6		20.0							
Mar. 20 1100	13.5			11.7	15.8	17.6		20.0							
1500	16.7			11.8	15.8	17.7		20.0							
2000	18.5			11.8	15.8	17.6		20.0							
2400	18.7			11.8	15.8	17.7		19.95							
Mar. 21 1200	24.6			11.7	15.7	17.6		20.00							
1600	26.8			12.0	15.8	17.7		20.0							
2400	33.1			11.9	15.75	17.7		20.0							
Mar. 22 1200	22.0			12.1	15.7	17.7		20.0							
1645	24.2			12.1	15.7	17.7		20.0							
2100	22.0			12.1	15.7	17.8		20.0							
2400	29.9			12.2	15.7	17.8		20.0							
Mar. 23 1200	14.0			12.5	15.6	17.7		20.0							
1600	13.3			12.5	15.6	17.7		19.95							
2000	12.55			12.7	15.6	17.7		19.9							
2400	14.1			12.95	15.65	17.8		20.0							
Mar. 24 1200	15.0			13.0	15.6	17.7		20.0							
1600	16.3			13.2	15.6	17.8		19.95							
2000															
2400	17.5			13.4	15.5	17.8		20.0							
Mar. 25 1200	22.8			13.35	15.4	17.8		20.0							
1600	23.6			13.7	15.5	17.8		20.0							
2000	18.3			13.8	15.3	17.8		20.0							
2400	20.2			13.8	15.2	17.85		20.05							
Mar. 26 1200	16.9			13.8		17.8		20.05							
1600	16.8			13.8		17.8		20.05							
2000	15.0			13.8		17.8		20.05							
2400	4.1			13.9	15.7	17.85		20.05							
Mar. 27 1200	20.6			13.95	15.65	17.8		20.05							
1600	26.2			14.0	15.6	17.8		20.0							
2000	32.5			14.2	15.8	17.8		20.0							
2400	35.9			14.2	15.7	17.7		20.0							
Mar. 28 1200	32.7			14.4	15.8	17.9		20.1							
1600	31.8			14.5	15.8	17.9		20.1							
2000	32.15			14.55	15.9	17.95		20.1							
2400	27.0			14.55	15.85	17.9		20.1							
Mar. 29 1200	22.7			14.7	15.9	17.95		20.1							
1600	24.3			14.8	16.0	18.0		20.1							
2100	24.5			14.95	15.95	17.9		20.1							
2400	23.7			15.05	16.0	18.0		20.1							
Mar. 30 1200	22.1			15.2	16.0	17.9		20.1							
1600	32.6			15.3	16.0	18.0		20.1							
2020	24.5			15.4	16.05	18.0		20.1							
2400	23.2			15.4	16.1	18.0		20.1							
Mar. 31 1200	15.0			15.0	16.1	17.9		20.1							
1600	14.0			15.5	16.05	18.0		20.1							
2000	9.6			15.7	16.2	18.0		20.15							
2400	6.8			15.6		18.0		20.15							
Apr. 1 1200	4.8			15.2		17.7		20.15							
1645	3.2			15.4	15.0	17.7		20.2							
2030	3.8			15.5	15.2	17.8		20.1							
2400	4.6			15.6	15.4	17.8		20.15							
Apr. 2 1200	5.9			16.0	15.9	18.1		20.35							
1600	4.6			16.1	16.1	18.2		20.4							
2000	6.5			16.2	16.3	18.3		20.5							
2400	7.2			16.5	16.55	18.4		20.7							
Apr. 3 1200	17.4			16.7	16.7	18.5		20.7							
1600	16.8			15.2	15.05			19.8	23.7						
2000	18.4			15.7	14.8			19.95	23.6						
2400	19.3			15.85	15.2	15.2		19.90	23.6						
Apr. 4 1200	18.6			15.8	15.8	16.7		19.9	23.6						
1600	25.6			15.8	15.95	16.9		19.9	23.6						
2000	17.6			15.9	16.0	17.5		19.9	23.6						
2400	14.15			16.05	16.05	17.2		19.9	23.6						
Apr. 5 1200	11.5			15.9	16.1	17.4		19.9	23.5	22.45	21.7	21.3			
1600	11.8			15.9	16.2	17.5		19.8	23.55	22.55	22.0	21.8			
2000	18.8			16.0	15.65	17.5		19.9	23.5	22.7	22.1	22.0			
2400	16.85			15.90	15.3	17.6		19.9	23.6	22.8	22.2	22.1			
Apr. 6 1200	16.25			15.7	15.4	17.4		19.7	23.47	22.9	22.5	22.35			
1600	16.2			15.6	14.4	17.4		19.65	23.45	22.8	22.47	22.25			
2000	16.3			15.0	14.3	17.35		19.65	23.6	23.0	22.5	22.5			
2400	16.3			14.8	14.6	17.35		19.7	23.5	23.0	22.62	22.5			
Apr. 7 1200	16.8			14.85	15.2	17.3		19.65	23.4	23.1	22.65	22.5			
1600	17.5			15.0	15.4	17.4		19.6	23.4	23.15	22.7	22.5			
2000	16.1			15.05	15.5	17.4		19.65	23.4	22.1	22.65	22.6			
2400	19.1			15.1	15.57	17.4		19.60	23.5	22.0	22.70	22.6			

TABLE 30.—*Daily subsurface temperature readings, Little America III*—Continued

1940 GMT	Depth														
	8	0.25	0.50	1	2	3	4	5	10	15	20	25	30	36	41
Apr. 8 1200	37.5			15.2	15.8	17.4		19.6	23.3	22.4	22.7	22.55			
1600	41.0			15.3	15.9	17.45		19.65	23.4	22.5	22.8	22.5			
2030	41.6			15.4	16.1	17.45		19.65	23.4	22.65	22.8	22.6			
2400	40.5			15.4	15.9	17.53		19.7	23.45	22.7	22.8	22.63			
Apr. 9 1200	38.2			15.5	16.1	17.5		19.65	23.3	22.8	22.8	22.6			
1600	37.4			15.5	16.05	17.5		19.6	23.3	22.6	22.8	22.6			
2000	40.0			15.55	16.4	17.55		19.65	23.3	22.2	22.95	22.6			
2400	42.2			15.6	16.6	17.68		19.7	23.4	22.38	22.6	22.7			
Apr. 10 1200	42.5			15.62	16.6	17.75		19.62	23.2	22.6	22.5	22.65			
1600	32.9			15.7	16.6	17.75		19.72	23.3	22.7	22.5	22.62			
2000	37.7			15.8	16.62	17.8		19.7	23.3	22.73	22.5	22.62			
2400	42.05			15.8	16.65	17.88		19.75	23.3	22.8	22.6	22.58			
Apr. 11 1200	41.3			15.97	18.0	18.02		19.8	23.3	22.85	22.62	22.34			
1600	43.6			16.05	18.5	18.2		19.82	23.35	22.95	22.6	22.34			
2000	47.3			16.2	18.6	18.4		20.0	23.35	22.98	22.8	22.37			
2400	44.18			16.32	19.22	18.45		20.05	23.3	23.0	22.7	22.38			
Apr. 12 1200	38.1			16.6	19.86	19.02		20.23	23.35	23.05	22.62	22.37			
1600	41.10			16.8	20.03	19.20		20.4	23.38	23.05	22.62	22.4			
2000	42.75			16.98	20.10	19.38		20.50	23.35	23.10	22.72	22.4			
2400	38.3			17.02	20.12	19.50		20.58	23.35	23.10	22.72	22.4			
Apr. 13 1200	40.3			17.35	19.85	19.65		20.68	23.35	23.15	22.75	22.42			
1600	42.53			17.40	19.43	19.60		20.75	23.40	23.15	22.80	22.45			
2000	43.80			17.58	19.40	19.62		20.78	23.38	23.20	22.80	22.57			
2400	46.07			17.60	19.20	19.60		20.79	23.35	23.20	22.80	22.55			
Apr. 14 1230	44.80			17.70	18.87	19.40		20.65	23.30	23.19	22.80	22.45			
2400	42.40			17.80	18.30	19.30		20.60	23.37	23.20	22.80	22.50			
Apr. 15 1400	26.5			17.80	18.35	19.20		20.48	23.37	23.20	22.80	22.50			
1700	25.6			17.95	18.59	19.21		20.55	23.41	23.21	22.80	22.60			
2400	25.4			18.00	18.43	19.21		20.57	23.41	23.28	22.82	22.60			
Apr. 16 1200	26.8			18.00	18.28	19.12		20.43	23.37	23.22	22.82	22.61			
1600	27.75			18.05	17.59	19.10		20.41	23.37	23.21	22.82	22.50			
2100	33.60			18.18	18.07	19.05		20.45	23.37	23.23	22.82	22.58			
2400	26.78			18.15	18.20	19.03		20.41	23.37	23.23	22.85	22.60			
Apr. 17 1200	26.20			18.10	18.20	19.00		20.30	23.28	23.20	22.80	22.58			
1600	26.3			18.20	17.67	19.99		20.33	23.33	23.22	22.81	22.60			
2000	28.8			18.23	17.98	19.00		20.45	23.30	23.28	22.85	22.60			
2400	23.00			18.28	18.21	19.00		20.40	23.38	23.32	22.91	22.60			
Apr. 18 1200	8.00			18.30	18.20	18.97		20.27	23.37	23.21	22.82	22.60			
1600	8.4			18.33	18.39	18.99		20.35	22.39	23.25	22.82	22.60			
2000	6.4			18.38	18.26	19.00		20.33	23.36	23.24	22.82	22.60			
2400	7.7			18.40	18.33	19.00		20.22	23.40	23.24	22.85	22.60			
Apr. 19 1200	9.6			18.42	18.10	19.00		20.22	23.38	23.22	22.87	22.63		22.00	21.60
1600	10.3			18.47	18.20	18.98		20.30	23.23	23.25	22.85	22.60		22.02	21.60
2000	11.05			18.50	18.22	19.00		20.32	23.37	23.25	22.87	22.61	22.40	22.05	21.65
2400	11.70			18.50	18.22	19.00		20.32	23.20	23.25	22.88	22.60	22.40	22.05	21.67
Apr. 20 1200	13.5			18.50	18.19	18.88		20.20	23.21	23.21	22.86	22.61	22.40	22.03	21.70
1600	14.0			18.60	18.22	18.90		20.22	23.39	23.28	22.84	22.63	22.42	22.08	21.73
2000	14.7			18.59	18.21	18.97		20.25	23.33	23.30	22.92	22.63	22.43	22.10	21.79
2400	15.38			18.59	18.27	18.90		20.22	23.42	23.35	22.87	22.65	22.47	22.14	21.79
Apr. 21 1200	17.20			18.56	18.18	18.82		20.20	23.34	23.34	22.83	22.62	22.40	22.07	21.77
1600	20.18			18.62	18.30	18.82		20.20	23.40	23.37	22.93	22.63	22.48	22.10	21.80
2000	19.20			18.60	18.25	18.90		20.20	23.39	23.35	22.89	22.66	22.46	22.10	21.80
Apr. 22 0100	32.0			18.55	18.15	18.94		20.21	23.39	23.37	22.95	22.63	22.43	22.10	21.83
1200	32.2			18.55	17.60	18.81		20.18	23.37	23.31	22.90	22.62	22.40	22.09	21.80
1600	32.24			18.56	17.92	18.80		20.15	23.25	23.35	22.85	22.61	22.40	22.00	21.80
2000	29.05			18.57	18.04	18.82		20.19	23.28	23.31	22.92	22.63	22.43	22.02	21.80
2400	26.80			18.59	18.04	18.81		20.19	23.40	23.38	22.83	22.62	22.43	22.08	21.80
Apr. 23 1200	21.40			18.45	17.99	18.80		20.10	23.07	23.07	22.83	22.60	22.40	22.02	21.80
1600	23.45			18.44	18.22	18.80		20.10	23.32	23.32	22.81	22.61	22.40	22.02	21.80
2000	17.58			18.50	18.20	18.80		21.14	23.35	23.35	22.95	22.65	22.41	22.05	21.80
2400	16.10			18.58	18.09	18.84		20.20	23.37	23.35	22.96	22.68	22.45	22.10	21.88
Apr. 24 1200	26.70			18.54	18.20	18.80		20.15	23.24	23.27	22.95	22.62	22.44	22.10	21.86
1600	25.35			18.56	18.18	18.80		20.13	23.30	23.30	22.92	22.62	22.43	22.08	21.83
2000	21.80			18.55	18.30	18.80		20.15	23.34	23.35	22.93	22.64	22.41	22.10	21.85
2400	21.80			18.55	18.20	18.80		20.15	23.33	23.35	22.95	22.64	22.43	22.10	21.85
Apr. 25 1200	28.03			18.55	18.30	18.80		20.01	23.21	23.27	22.87	22.61	22.40	22.00	21.81
1600	31.90			18.55	18.18	18.80		20.08	23.24	23.37	22.83	22.62	22.41	22.08	21.81
2000	30.80			18.58	18.12	18.80		20.14	23.32	23.37	22.92	22.62	22.41	22.10	21.87
2400	31.00			18.58	18.38	18.80		20.15	23.37	23.37	22.95	22.62	22.40	22.10	21.85
Apr. 26 1200	26.80			18.50	18.24	18.80		20.15	23.30	23.30	22.95	22.60	22.40	22.05	21.85
1600	26.30			18.55	18.17	18.80		20.14	23.23	23.35	22.95	22.60	22.40	22.05	21.85
2000	23.96			18.60	18.11	18.81		20.12	23.30	23.36	22.95	22.62	22.42	22.10	21.85
2400	22.70			18.60	18.27	18.82		20.12	23.27	23.38	22.93	22.62	22.41	22.02	21.88
Apr. 27 1200	22.50			18.62	18.30	18.82		20.15	23.30	23.38	22.93	22.63	22.41	22.04	21.88
1600	22.08			18.62	18.36	18.82		20.15	23.34	23.38	22.95	22.70	22.47	22.18	21.95
2000	19.20			N. R.	N. R.	18.92		20.16	23.35	23.40	22.99	22.72	22.48	22.16	21.98
Apr. 28 0100	23.00			N. R.	N. R.	18.90		20.16	23.36	23.39	22.99	22.70	22.48	22.17	21.98
1200	22.63			N. R.	N. R.	18.82		20.15	23.26	23.35	22.90	22.61	22.41	22.10	21.90
1600	21.81			N. R.	N. R.	18.85		20.07	23.32	23.38	22.95	22.62	22.41	22.10	21.90
2000	23.60			N. R.	N. R.	N. R.		N. R.	N. R.	N. R.	N. R.	N. R.	N. R.	N. R.	N. R.
2400	22.55			18.71	18.52	18.90		20.11	23.27	23.40	22.98	22.65	22.45	22.15	21.94
Apr. 29 1200	21.05			18.65	18.41	18.82		20.07	23.17	23.35	22.92	22.61	22.41	22.08	21.94
2000	20.72			18.76	18.47	18.85		20.07	23.31	23.38	22.97	22.63	22.45	22.08	21.94
2400	21.80			18.75	18.43	18.87		20.04	23.32	23.39	22.95	22.62	22.47	22.07	21.95

TABLE 30.—*Daily subsurface temperature readings, Little America III*—Continued

1940 GMT	Depth														
	S	0.25	0.50	1	2	3	4	5	10	15	20	25	30	36	41
Apr. 30 1200	21.00			18.78	18.42	18.92		20.05	23.25	23.40	22.98	22.62	22.45	22.07	21.98
1600	21.20			18.81	18.47	18.94		20.12	23.28	23.40	22.98	22.71	22.45	22.19	21.96
2000	26.65			18.81	18.45	18.92		20.12	23.23	23.40	22.99	22.64	22.50	22.14	22.00
2400	30.40			18.80	18.47	18.95		20.13	23.20	23.39	22.98	22.63	22.45	22.15	21.99
May 1 1200	33.05			18.73											
1300					18.40	18.82		20.07	23.14	23.30	22.87	22.60	22.40	22.07	21.87
1600	36.08			18.85	18.56	18.91		20.13	23.32	23.40	23.00	22.70	22.48	22.15	21.98
2000	40.80			18.82	18.57	18.95		20.08	23.25	23.39	23.98	22.70	22.45	22.15	21.98
2400	43.65			18.87	18.50	18.98		20.13	23.02	23.40	22.99	22.71	22.45	22.15	21.98
May 2 1200	43.20			18.81	18.52	18.85		20.04	23.15	23.33	22.80	22.60	22.40	22.07	21.88
1600	43.00			18.87	18.53	18.87		20.03	23.24	23.36	22.97	22.63	22.42	22.06	21.90
2000	42.80			18.90	18.57	18.92		20.05	23.22	23.38	22.95	22.65	22.42	22.10	21.98
2400	43.60			18.93	18.59	18.96		20.04	23.26	23.37	22.96	22.65	22.42	22.10	21.98
May 3 1300	30.60			18.88	18.57	18.88		20.05	23.10	23.30	22.85	22.59	22.30		21.92
1620	31.20	31.00	24.10	21.23	18.75	18.57	18.93	20.10	23.20	23.39	22.97	22.68	22.38	22.10	21.94
2000	32.40	30.64	24.30	21.26	18.62	18.68	18.98	20.12	23.20	23.40	22.98	22.67	22.41	22.15	21.98
2400	35.35	30.38	24.50	21.36	18.60	18.62	18.99	20.13	23.27	23.40	23.00	22.65	22.43	22.16	22.00
May 4 1200	46.10	31.28	24.73	21.45	18.56	18.60	18.92	20.02	23.20	23.35	22.90	22.60	22.40	22.07	21.90
1620	44.60	32.03	24.90	21.78	18.61	18.61	18.95	20.02	23.22	23.40	22.96	22.64	22.44	22.13	21.97
2000	40.57	32.54	25.00	21.63	18.60	18.61	18.97	20.04	23.20	23.41	22.95	22.65	22.42	22.12	21.98
2400	33.13	32.80	25.15	21.73	18.65	18.61	18.98	20.10	23.21	23.40	22.96	22.67	22.44	22.15	21.98
May 5 1200	32.80	31.80	25.50	21.82	18.60	18.60	18.95	20.00	23.19	23.38	22.90	22.59	22.41	22.08	21.90
1600	35.56	31.14	25.60	21.92	18.60	18.59	18.98	20.06	23.22	23.30	22.93	22.61	22.41	22.07	21.88
2000	37.13	31.00	25.64	22.01	18.65	18.58	19.00	20.05	23.20	23.38	22.91	22.62	22.41	22.12	21.90
2400	36.60	30.90	25.77	22.15	18.67	18.61	19.00	20.08	23.26	23.41	22.97	22.63	22.42	22.00	21.96
May 6 1200	43.25	31.00	25.73	22.24	18.69	18.60	18.99	20.01	23.20	23.25	22.90	22.60	22.39	22.04	21.90
1600	46.00	31.50	25.80	22.39	18.70	18.65	19.00	20.05	23.25	23.38	22.93	22.62	22.42	22.10	21.94
2000	47.78	31.90	25.88	22.46	18.75	18.77	19.02	20.13	23.21	23.40	22.98	22.70	22.42	22.15	22.00
2400	50.00	32.50	26.00	22.50	18.80	18.78	19.02	20.15	23.24	23.24	22.98	22.70	22.45	22.15	22.00
May 7 1200	52.5														
1400	48.0	34.50	26.33	22.60	18.75	18.65	18.95	19.98	23.14	23.25	22.82	22.60	22.38	22.02	21.93
2000	48.24	35.18	26.71	22.81	18.93	18.80	19.10	20.17	23.25	23.41	23.00	22.70	22.46	22.20	22.01
May 8 0800	46.80	35.80	27.17	22.90	18.90	18.67	19.00	19.97	23.08	23.23	22.80	22.60	22.36	22.02	21.97
1400	46.2	36.13	27.47	23.10	18.85	18.76	19.00	20.07	23.12	23.35	22.87	22.60	22.40	22.05	21.90
2000	39.64	36.34	27.75	23.21	18.88	18.80	19.01	20.07	23.15	23.32	22.87	22.59	22.40	22.06	21.90
May 9 0800	40.23	35.66	28.17	23.50	19.00	18.80	19.04	20.00	23.20	23.35	22.90	22.65	22.41	22.14	21.93
1400	38.70	35.35	28.17	23.50	19.01	18.75	19.03	20.02	23.17	23.35	22.92	22.62	23.39	22.13	21.95
2000	40.60	35.00	28.14	23.70	19.02	18.81	19.01	20.10	23.20	23.36	22.90	22.65	22.40	22.10	21.95
May 10 0800	45.73	35.45	28.13	23.82	19.02	18.82	19.01	20.10	23.10	23.30	22.92	22.60	22.40	22.08	21.90
1400	48.30	36.00	28.27	24.00	19.15	18.85	19.10	20.10	23.10	23.32	22.93	22.62	22.40	22.15	21.95
2000	46.50	36.87	28.40	24.08	19.10	18.89	19.15	20.16	23.20	23.33	22.96	22.65	22.41	22.15	21.97
May 11 0800	52.45	38.00	28.90	24.12	19.17	18.82	19.02	20.02	23.08	23.25	22.92	22.60	22.33	22.00	21.90
1400	54.02	38.92	29.20	24.40	19.20	18.83	19.12	20.04	23.17	23.34	22.95	22.61	22.40	22.00	21.92
2100	54.00	40.00	29.60	24.59	19.31	19.00	19.16	20.17	23.17	23.35	22.97	22.69	22.43	22.15	22.00
May 12 0800	40.50	40.20	30.10	24.70	19.28	18.90	19.06	20.12	23.15	23.25	22.86	22.60	22.28		21.90
1400	35.75	39.35	30.40	24.95	19.40	18.90	19.18	20.10	23.15	23.37	22.93	22.61	22.38	22.10	21.90
2000	36.80	38.02	30.57	25.12	19.48	19.01	19.00	20.18	23.20	23.40	23.00	22.70	22.44	22.18	22.00
May 13 1400	42.00	36.43	30.42	25.48	19.76	19.01	19.17	20.16	23.17	23.35	22.96	22.62	22.40		21.90
2000	36.70	36.40	30.48	25.60	19.67	19.10	19.23	20.10	23.20	23.40	23.01	22.75	22.51	22.20	22.01
May 14 1200	45.16	36.61	30.40	25.80	19.71	19.08	19.20	20.19	23.20	23.39	22.99	22.68	22.41	22.15	22.00
1400	47.58	37.42	30.41	25.90	19.80	19.10	19.22	20.20	23.20	23.39	23.00	22.76	22.36	22.18	22.00
May 15 0800	52.00	38.47	30.56	26.00	19.80	19.05	19.20	20.15	23.18	23.37	22.98	22.70	22.37	22.16	21.99
1400	51.20	39.26	30.77	26.14	19.83	19.19	19.25	20.17	23.19	23.39	22.98	22.70	22.40	22.15	22.00
2000	51.42	40.10	31.01	26.20	19.98	19.18	19.26	20.19	23.17	23.40	23.00	22.67	22.39	22.15	22.00
May 16 0800	50.80	41.00	31.38	26.28	19.96	19.15	19.23								
1400	49.14	41.35	31.70	26.43	20.01	19.20	19.26	20.18	23.15	23.39	22.94	22.65	22.41	22.08	22.00
2000	44.20	41.27	31.88	26.60	20.08	19.19	19.24	20.16	23.15	23.38	22.90	22.61	22.42	22.13	21.87
May 17 0800	40.05	40.50	32.18	26.63	20.03	19.20	19.22	20.10	23.10	23.30	22.86	22.59	22.40		21.83
1400	39.00	39.80	32.26	26.93	20.18	19.23	19.32	20.18	23.10	23.23	22.92	22.64	22.40	22.12	21.97
2000	37.92	38.80	32.19	26.90	20.21	19.26	19.35	20.18	23.17	23.27	22.98	22.62	22.41	22.08	21.97
May 18 1100	24.24	34.26	31.33	26.79	20.33	19.37	19.37	20.20	23.19	23.28	22.97	22.65	22.46	22.15	22.00
1400	21.40	33.16	31.20	26.80	20.25	19.37	19.41	20.21	23.19	23.35	22.98	22.67	22.43	22.15	21.98
2000	7.45	29.43	30.97	26.83	20.40	19.40	19.41	20.22	23.18	23.39	23.00	22.68	22.43	22.16	21.99
May 19 0800	9.40	22.96	29.60	26.83	20.42	19.40	19.40	20.19	23.07	23.33	22.89	22.63	22.38	22.02	21.91
1400	8.90	21.70	28.76	26.82	20.54	19.42	19.40	20.20	23.07	23.38	22.93	22.64	22.42	22.12	21.99
2000	9.30	20.15	27.96	26.79	20.60	19.43	19.40	20.21	23.12	23.38	22.92	22.66	22.42	22.16	22.00
May 20 1400	13.80	20.18	25.60	26.10	20.62	19.40	19.38	20.20	23.03	23.28	22.85	22.60	22.25	22.03	21.90
2000	16.70	20.30	25.22	25.95	20.70	19.50	19.40	20.20	23.00	23.28	22.94	22.63	22.41	22.05	21.97
May 21 0800	17.60	20.75	24.48	25.50	20.80	19.53	19.45	20.17	23.00	23.35	22.95	22.60	22.38	22.10	21.95
1400	22.08	20.82	24.23	25.27	20.86	19.58	19.42	20.17	23.05	23.30	22.93	22.62	22.38	22.05	21.92
2000	21.72	21.25	24.08	25.10	20.88	19.60	19.43	20.17	23.00	23.33	22.90	22.62	22.40	22.06	21.97
May 22 0800	29.90	22.06	23.80	24.79	21.00	19.60									
1400	32.10	22.86	23.77	24.60	21.00	19.60	19.47	20.19	23.05	23.35	22.88	22.60	22.40	22.05	21.97
2000	34.53	23.90	23.73	24.50	21.03	19.63	19.50	20.20	23.03	23.35	22.90	22.61	22.40	22.05	21.98
May 23 0800	39.38	25.38	23.93	24.27	21.18	19.70									
1400	40.40	26.03	24.10	24.20	21.18	19.75	19.53	20.20	23.00	23.38	22.92	22.63	22.40	22.05	21.99
2000	32.92	26.90	24.22	24.15	21.18	19.75	19.55	20.21	23.05	23.33	22.93	22.61	22.41	22.05	21.99
May 24 1400	35.58	27.27	24.60	24.07	21.21	19.80									
1460	42.63	27.59	24.92	24.10	21.26	19.80	19.60	20.23	23.05	23.37	22.92	22.61	22.40	22.03	22.00
2000	42.60	28.50	25.00	24.14	21.30	19.80	19.60	20.23	23.05	23.40	22.95	22.63	22.40	22.10	22.00

TABLE 30.—*Daily subsurface temperature readings, Little America III*—Continued

1940 GMT	Depth														
	S	0.25	0.50	1	2	3	4	5	10	15	20	25	30	36	41
May 25 0800	36.00	29.80	25.40	24.10	21.22	19.80	19.52	20.15	23.00	23.30	22.90	22.60	22.38	22.08	21.88
1400	44.95	29.95	25.75	24.17	21.37	19.87	19.60	20.22	23.00	23.30	22.95	22.60	22.40	22.13	21.95
2000	42.90	30.63	26.00	24.28	21.35	19.96	19.62	20.26	23.00	23.35	22.96	22.62	22.40	22.12	21.99
May 26 0800	38.68	31.40	26.30	24.28	21.25	19.88									
1400	32.00	31.28	26.56	24.35	21.28	19.95	19.65	20.20	23.00	23.30	22.95	22.60	22.40	22.08	21.93
May 27 2000	28.35	30.78	26.65	24.42	21.30	20.00	19.65	20.20	23.00	23.35	22.90	22.63	22.43	22.18	22.00
1400	23.10	25.60	26.35	24.48	21.28	20.10	19.72	20.22	23.00	23.36	22.95	22.65		22.05	21.95
2000	18.40	26.30	26.22	24.50	21.38	20.10	19.75	20.30	23.00	23.35	22.95	22.70	22.45	22.00	22.00
May 28 0800	13.85	22.40	22.07		22.77	20.13									
1400	23.90	21.87	23.40	24.48	21.30	20.12	19.76	20.34	23.00	23.35	22.95	22.65	22.40	22.10	22.00
2000	29.60	22.30	25.00	24.44	21.40	20.18	19.81	20.39	23.00	23.38	22.97	22.67	22.41	22.15	22.00
May 29 0800	24.80	24.20	24.40	24.27	21.40	20.18									
1400	17.35	24.40	24.40	24.23	21.41	20.13	19.85	20.40	23.00	23.38	22.97	22.70	22.41	22.13	22.00
2000	24.07	23.38	24.35	24.20	21.40	20.12	19.83	20.40	23.02	23.40	22.99	22.70	22.41	22.15	22.00
May 30 0800	36.35	24.28	24.07	24.01	21.40	20.10									
1400	43.10	25.40	24.13	23.98	21.43	20.21	19.83	20.23	23.00	23.38	22.98	22.70	22.41	22.15	22.00
2000	34.15	26.47	24.20	23.95	21.43	20.21	19.83	20.23	23.00	23.35	22.98	22.67	22.41	22.10	22.00
May 31 0800	33.80	28.00	24.65	23.93	21.40	20.23									
1400	34.87	28.30	24.85	23.90	21.40	20.24	19.90	20.20	23.00	23.35	22.95	22.68	22.40	22.08	
2000	30.05	28.79	25.04	23.93	21.50	20.07	19.90	20.20	23.00	23.20	22.93	22.70	22.38	22.08	21.99
June 1 0800	46.60	29.28	25.78	24.00	21.42	20.38									
1400	49.30	30.75	25.60	24.00	21.50	20.40	19.99	20.20	23.00	23.40	23.00	22.68	22.40		22.00
2000	52.20	32.63	25.80	24.10	21.53	20.40	20.00	20.40	23.00	23.37	22.97	22.70	22.38	22.08	22.00
June 2 1400	45.67	36.13	27.10	24.40	21.55	20.40	20.00	20.40	23.00	23.39	22.98	22.67	22.28	22.01	21.98
2000	31.00	36.20	27.72	24.52	21.50	20.40	19.99	20.40	23.00	23.35	22.95	22.67	22.40	22.05	21.99
June 3 1400	33.18	33.00	28.60	25.15	21.59	20.40	20.00	20.20	22.97	23.30	22.95	22.65	22.40	22.07	21.78
2000	32.90	31.92	28.63	25.20	21.59	20.45	20.00	20.38	23.00	23.35	22.98	22.70	22.35	22.00	21.95
June 4 1400	50.53	34.85	28.75	25.65	21.60	20.60	20.05	20.40	23.00	23.30	22.99	22.70	22.40	21.95	21.95
2000	31.80	35.80	32.87	25.68	21.60	20.50	20.05	20.43	23.00	23.34	22.92	22.70	22.40	22.05	21.85
June 5 0800	25.60	32.23	29.40	26.00	21.61	20.50									
1400	27.00	30.60	29.40	26.10	21.65	20.50	20.08	20.43	23.00	23.35	22.92	22.63		22.10	21.86
2000	35.93	30.28	29.13	26.20	21.70	20.60	20.12	20.43	22.98	23.32	22.96	22.63	22.40	22.10	21.94
June 6 0800	45.00	31.80	28.70	26.22	21.75	20.55									
1400	46.78	33.18	28.80	26.20	21.76	20.60	20.20	20.52	23.00	23.30	22.98	22.63	22.40	22.10	21.96
June 7 2000	51.18	34.70	28.83	26.20	21.77	20.60	20.15	20.43	22.95	23.30	22.95	22.64	22.40	22.10	2.95
1400	49.60	38.42	29.84	26.45	21.82	20.60	20.19	20.50	23.00	23.35	22.97	22.59	22.40	22.05	
2000	46.80	39.05	30.25	26.55	21.87	20.60	20.20	20.50	22.95	23.35	22.99	22.60	22.40	22.05	21.98
June 8 1400	31.10	36.10	31.00	26.90	21.98	20.68	20.20	20.48	22.93	23.35	22.98	22.62	22.40	22.05	21.90
2000	29.20	33.97	30.77	26.96	22.00	20.62	20.20	20.50	22.92	23.35	22.95	22.65	22.40	22.13	21.99
June 9 0800	25.12	30.92	30.00	26.93	22.00	20.75									
1400	26.27	29.60	29.62	26.86	22.01	20.77	20.30	20.57	22.98	23.40	22.95	22.72	22.40	22.13	22.00
2000	26.80	29.19	29.25	26.86	22.05	20.78	20.32	20.58	23.00	23.40	23.00	22.76	22.43	22.13	22.00
June 10 1400	24.40	25.08	28.20	26.83	22.17	20.80	20.32	20.60	22.95	23.38	22.98	22.73	22.43	22.15	22.00
2000	38.43	26.00	27.78	26.80	22.20	20.80	20.36	20.47	22.96	23.38	22.96	22.70	22.42		22.00
June 11 0800	39.87	29.00	27.33	26.60	22.30	20.80									
1400	42.95	31.00	27.33	26.53	22.20	20.80	20.36	20.60	22.95	23.35	22.93	22.66	22.40	22.05	21.93
2000	39.25	32.98	27.60	26.40	22.25	20.80	20.36	20.60	22.95	23.35	22.98	22.68	22.40	22.07	21.98
June 12 0800	28.00	31.17	27.95	26.22	22.30	20.87									
1400	21.65	29.28	27.86	26.22	22.32	20.90	20.40	20.62	22.94	23.32	22.98		22.40	22.07	21.98
2000	21.08	28.01	27.84	26.19	22.35	20.95	20.40	20.63	22.98	23.37	23.00	22.72	22.40	22.13	22.00
June 13 0800	21.42	25.40	27.40	26.20	22.40	20.95									
1400	36.62	26.62	27.10	26.21	22.40	21.00	20.43	20.63	22.99	23.40	23.00	22.72	22.43	22.13	22.00
2000	36.80	28.47	26.92	26.13	22.45	21.00	20.40	20.63	22.93	23.40	23.00	22.70	22.46	22.15	22.00
June 14 1400	27.10	31.30	27.26	26.00	22.47	21.00	20.43	20.67	22.90	23.38	23.00	22.50	22.40	22.15	22.00
2000	20.68	29.38	27.35	25.96	22.47	21.00	20.41	20.67	22.88	23.37	23.00	22.70	22.40	22.15	21.99
June 15 0800	17.00	27.43	27.03	25.93	22.53	21.05									
1400	16.17	24.20	26.83	25.83	22.53	21.13	20.60	20.70	22.97	23.38	23.00	22.75	22.42	22.18	22.00
2000	14.40	23.05	26.43	25.80	22.50	21.13	20.52	20.67	22.93	23.37	23.00	22.70	22.42	22.10	22.00
June 16 0800	26.18	22.43	25.57	25.63	22.55	21.10									
1400	30.97	24.37	25.23	25.60	22.55	21.15	20.57	20.65	22.95	23.35	23.00	22.65	22.40	22.12	21.99
2000	34.27	26.12	25.17	25.55	22.60	21.15	20.57	20.73	22.97	23.39	22.99	22.72	22.30	22.07	21.98
June 17 1400	34.50	28.84	25.63	25.21	22.61	21.13	20.57	20.73	22.90	23.35	23.00	22.72	22.35	22.07	21.98
2000	36.21	29.45	25.94	25.20	22.62	21.20	20.58	20.65	22.82	23.27	22.92	22.62		22.10	21.87
June 18 1400	44.37	33.30	26.87	25.27	22.61	21.20	20.60	20.70	22.83	23.30	22.95	22.64	22.38	22.10	21.95
2000	47.50	35.75	27.25	25.30	22.65	21.20	20.60	20.73	22.85	23.32	22.98	22.63	22.38	22.10	21.95
June 19 1400	49.20	40.20	29.26	25.70	22.69	21.22	20.60	20.76	22.84	23.28	22.98	22.63	22.40	22.07	21.97
2000	50.16	40.75	29.93	25.94	22.71	21.22	20.61	20.78	22.81	23.30	22.97	22.58			21.97
June 20 1400	39.22	40.20	31.61	26.60	22.73	21.25	20.66	20.73	22.81	23.27	22.97	22.62	22.40	22.05	21.97
2000	41.20	39.37	31.94	26.82	22.75	21.25	20.67	20.77	22.82	23.23	22.95	22.65	22.40	22.05	21.97
June 21 1400	38.13	39.50	32.38	27.50	22.80	21.37	20.77	20.81	22.85	23.35	23.00	22.72	22.40	22.05	21.97
2000	25.40	37.07	32.36	27.63	22.80	21.39	20.73	20.77	22.83	23.30	23.00	22.71	22.40	22.05	21.98
June 22 1400	26.00	31.00	31.27	27.85	22.83	21.42	20.78	20.83	22.80	23.33	23.00	22.68	22.42		21.97
2000	16.66	29.80	30.80	27.90	22.87	21.42	20.80	20.85	22.82	23.37	23.00	22.70	22.43	22.01	22.00
June 23 1400	21.43	25.37	29.17	27.77	23.00	21.55	20.83	20.87	22.91	23.37	23.00	22.74	22.41	22.10	21.98
2000	20.62	52.20	28.60	27.66	22.98	21.62	20.83	20.90	22.88	23.34	23.00	22.75	22.40	22.08	21.99

TABLE 30.—*Daily subsurface temperature readings, Little America III*—Continued

1940 GMT	Depth														
	S	0.25	0.50	1	2	3	4	5	10	15	20	25	30	36	41
June 24 1400	24.78	25.65	27.67		23.01	21.77	20.92	20.83	22.90	23.35	23.00	22.73	22.30	22.01	22.00
2000	28.00	25.90	27.20	27.16	23.05	21.53	20.86	20.92	22.90	23.33	22.98	22.73	22.40	22.01	21.99
June 25 1400	19.60	26.02	26.95	26.70	23.01	21.56	20.87	20.95	22.83	23.33	22.97	22.70	22.38	22.10	21.99
2000	19.17	24.60	26.85	26.65	23.02	21.58	20.87	20.90	22.80	23.30	22.99	22.70	22.38	22.04	21.99
June 26 1400	21.87	24.30	26.20	26.40	23.23	21.60	20.92	20.88	22.82	23.36	23.00	22.70	22.42	22.10	22.00
2000	16.20	23.95	26.00	26.27	23.23	21.58	20.92	20.98	22.85	23.36	23.00	22.70	22.39	22.15	21.82
June 27 1400	27.50	24.48	25.45	25.99	23.34	21.60	21.00	20.98	22.83	23.33	23.00	22.75	22.41	22.15	21.97
2000	21.40	25.30	25.39	25.87	23.35	21.60	20.99	20.93	22.82	23.35	23.00	22.72	22.37	22.15	21.97
June 28 1400	19.15	24.63	25.60	25.65	23.49	21.64	21.00	20.83	22.82	23.35	23.00	22.73	22.37	22.10	21.98
2000	21.02	23.75	25.42	25.58	23.39	21.65	21.00	21.00	22.80	23.36	23.00	22.76	22.40	22.10	22.00
June 29 1400	33.20	25.05	25.00	25.41	23.41	21.77	21.05	21.00	22.82	23.30	23.02	22.74	22.40	22.12	22.00
2000	39.20	27.20	25.00	25.32	23.40	21.73	21.05	20.96	22.81	23.33	23.00	22.75	22.35	22.12	21.98
June 30 1400	24.22	27.59	25.82	25.20	23.40	21.77	21.12	21.05	22.83	23.35	23.00	22.75	22.32	22.16	22.00
2000	32.80	27.40	26.01	25.25	23.40	21.80	21.12	21.03	22.83	23.37	23.01	22.75	22.30	22.12	22.00
July 1 1430	35.00	35.00	26.41	25.33	23.40	21.80	21.15	21.05	22.82	23.33	23.02	22.74	22.39	22.15	22.00
2000	28.20	31.00	26.61	25.40	23.41	21.82	21.13	21.06	22.80	23.33	23.01	22.72	22.36	22.12	21.93
July 2 1415	31.21	28.20	27.00	25.60	23.40	21.80	21.15	21.02	22.82	23.35	23.01	22.73	22.40	22.12	22.00
2000	20.82	28.38	27.03	25.73	23.42	21.93	21.20	21.10	22.83	23.38	23.01	22.76	72.41	22.13	22.00
July 3 1400	23.20	25.72	26.60	25.68	23.40	21.87	21.20	21.03	22.80	23.28	22.99	22.64	22.41	22.06	21.95
2000	15.64	25.00	26.40	25.65	23.38	21.90	21.20	21.02	22.75	23.27	23.00	22.68	22.41	22.05	21.97
July 4 1400	13.00	19.46	25.17	25.60	23.40	21.99	21.20	21.15	22.81	23.33	23.00	22.73	22.40	22.13	22.00
2000	12.18	19.55	24.72	25.47	23.40	22.00	21.22	21.15	22.80	23.35	23.00	22.68	22.41	22.15	22.00
July 5 1400	16.95	18.83	23.40	25.00	23.42		21.21	21.15	22.80	23.35	23.00	22.69	22.41	22.16	22.00
2000	23.23	19.16	23.08	24.82	23.42	22.00	21.25	21.10	22.70	23.35	23.00	22.69	22.41	22.17	22.00
July 6 1500	23.15	20.67	22.70	24.36	23.47	22.00	21.24	21.18	22.80	23.35	23.00	22.72	22.42	22.17	22.00
2000	23.65	21.12	22.64	24.20	23.50	22.00	21.28	21.15	22.80	23.35	23.00	22.72	22.41	22.15	22.00
July 7 1500	31.20	23.40	22.80	23.90	23.50	22.00	21.33	21.18	22.80	23.33	23.00	22.73	22.40	22.15	22.00
2000	34.08	24.20	22.97	23.90	23.42	22.02	21.35	21.20	22.80	23.35	23.00	22.73	22.42	22.05	21.96
July 8 1400	37.50	27.63	23.83	23.80	23.40	22.04	21.38	21.20	22.81	23.35	23.00	22.65	22.42	22.05	22.00
2000	40.20	28.39	24.21	23.82	23.30	22.10	21.38	21.20	22.80	23.26	23.00	22.70	22.41	21.94	21.96
July 9 1430	23.27	30.02	25.80	24.20	23.43	22.22	21.50	21.33	22.90	23.41	23.12	22.81	22.41	22.20	22.10
2000	21.15	28.62	25.83	24.30	23.42	22.21	21.50	21.28	22.88	23.40	23.04	22.80	22.47	22.18	22.03
July 10 1400	42.40	28.50	25.78	24.57	23.33	22.15	21.41	21.23	22.80	23.32	23.00	22.75	22.40	22.66	21.99
2000	43.05	30.02	25.85	24.61	23.38	22.19	21.47	21.26	22.81	23.38	23.04	22.78	22.40	22.12	22.00
July 11 1400	34.20	33.61	26.95	24.83	23.35	22.18	21.48	21.22	22.81	23.38	23.02	22.76	22.40	22.02	21.99
2000	32.00	32.93	27.43	25.07	23.39	22.23	21.57	21.32	22.87	23.40	23.10	22.80	22.50	22.21	22.03
July 12 1400	31.10	31.00	27.81	25.42	23.28	22.20	21.53	21.35	22.80	23.36	23.02	22.79	22.42	22.05	22.00
2000	30.90	30.71	27.92	25.60	23.32	22.29	21.60	21.36	22.85	23.40	23.05	22.80	22.42	22.10	22.00
July 13 1400	45.80	30.08	27.80	25.80	23.23	22.20	21.60	21.32	22.80	23.36	23.00	22.70	22.42	22.12	22.00
July 14 1400	37.80	30.67	27.80	25.97	23.30	22.22	21.59	21.40	22.80	23.35	23.02	22.75	22.40	22.08	21.98
2000	45.50	30.77	27.96	26.02	23.37	22.26	21.60	21.40	22.80	23.40	23.02	22.78	22.42	22.15	22.00
July 15 1200	48.40														
1400	42.66	31.53	28.11	26.20	23.35	22.21	21.53	21.40	22.80	23.32	23.01	22.76	22.40	22.12	21.86
2000	39.84	31.62	28.11	26.21	23.40	22.20	21.55	21.34	22.77	23.27	22.98	22.73	22.35	22.12	22.00
July 16 1400	51.35	32.57	28.60	26.54	23.41	22.15	21.53	21.35	22.73	23.25	23.00	22.68	22.40	22.16	22.00
2000	55.22	33.01	28.80	26.59	23.41	22.20	21.58	21.35	22.73	23.28	23.00	22.70	22.42	22.10	21.98
July 17 1400	41.82					22.21	21.57	21.33	22.71	23.21	22.97	22.64	22.41	22.00	21.87
1430	41.33	34.73	29.40	26.80	23.40										
1500	40.40	34.79	29.30	26.85	23.40										
1530	39.70	34.83	29.40	26.90	23.51										
1600	39.60	34.86	29.66	26.90	23.49										
1630	39.80	34.94	29.50	26.96	23.52										
1700	39.99	35.00	29.56	26.99	23.57										
1730	40.00	35.00	29.56	26.99	23.55										
2000	47.23	35.22	29.70	27.00	23.55	22.21	21.59	21.33	22.73	23.25	22.99	22.64	22.40	22.05	21.99
July 18 1500	49.75	35.55	30.47	27.40	23.55	22.21	21.60	21.36	22.73	23.21	22.98	22.63	22.39	22.07	21.82
2000	51.33	35.60	30.61	27.50	23.60	22.21	21.61	21.38	22.75	23.32	23.00	22.73	22.40	22.16	22.00
July 19 1500	49.70	36.65	31.20	27.98	23.65	22.25	21.65	21.40	22.78	23.28	23.00	22.73	22.40	22.00	22.00
2000	51.61	36.84	31.31	27.98	23.62	22.20	21.62	21.38	22.75	23.21	22.87	22.68	22.40	22.07	21.90
July 20 1400	35.25	37.80	31.98	28.40	23.78	22.28	21.64	21.39	22.75	23.21	23.00	22.70		22.13	22.00
2000	41.50	37.80	32.15	28.60	23.80	22.34	21.65	21.43	22.75	23.23	23.00	22.68	22.40	22.15	22.00
July 21 1500	40.16	37.38	32.57	29.01	23.86	22.33	21.70	21.43	22.68	23.21	23.00	22.68	22.40	22.15	22.00
2000	36.40	37.40	32.60	29.17	23.90	22.35	21.70	21.45	22.72	23.30	23.00	22.73	22.40	22.12	22.00
July 22 1600	31.30	36.50	32.65	29.40	23.96	22.23	21.62	21.41	22.65	23.21	22.98	22.65	22.30	22.08	21.97
2000	26.58	36.40	32.73	29.57	24.01	22.35	21.72	21.43	22.67	23.25	23.00	22.67	22.40	22.05	21.99
July 23 1400	32.87	34.50	32.56	29.70	24.18	22.40	21.78	21.45	22.71	23.25	23.00	22.73	22.50	22.17	22.00
2000	42.00	34.36	32.46	29.78	24.20	22.41	21.80	21.50	22.77	23.32	23.00	22.74	22.45	22.20	22.00
July 24 1400	27.60	34.03	32.00	29.76	24.33	22.41	21.80	21.47	22.76	23.30	23.00	22.73	22.45	22.20	21.95
2000	32.80	33.87	32.00	29.77	24.40	22.50	21.82	21.58	22.79	23.30	23.01	22.77	22.42	22.20	22.00
July 25 1400	35.65	33.60	31.63	29.72	24.50	22.50	21.80	21.60	22.76	23.30	23.02	22.75	22.42	22.20	22.03
2000	40.80	33.72	31.60	29.67	24.50	22.53	21.82	21.52	22.76	23.30	23.00	22.75	22.42	22.19	22.03

TABLE 30.—*Daily subsurface temperature readings, Little America III*—Continued

1940 GMT	Depth														
	S	0.25	0.50	1	2	3	4	5	10	15	20	25	30	36	41
July 26 1500	23.52	33.28	31.50	29.63	24.63	22.42	21.78	21.59	22.73	23.26	23.00	22.78	22.42	22.20	22.01
2000	24.62	32.73	31.45	29.60	24.61	22.55	21.80	21.59	22.71	23.23	23.00	22.73	22.44	22.17	22.00
July 27 1400	31.40	31.58	30.60	29.47	24.73	22.58	21.82	21.59	22.75	23.24	22.99	22.70	22.43	22.07	22.00
2000 [1]															
July 28 1400	21.23	29.58	30.05	29.22	24.83	22.61	21.82	21.59	22.73	23.24	22.99	22.70	22.40	22.18	22.00
2000	18.32	28.72	29.97	29.18	24.92	22.65	21.92	21.63	22.76	23.28	23.01	22.76	22.43	22.20	22.02
July 29 1400	27.15	26.39	28.78	28.83	25.01	22.65	21.96	21.64	22.76	23.30	23.00	22.76	22.42	22.20	22.02
2000	23.22	26.62	28.58	28.76	25.02	22.79	22.00	21.68	22.80	23.35	23.00	22.75	22.42	22.20	22.03
July 30 1400	16.23	24.37	27.78	28.26	25.14	22.80	22.00	21.72	22.75	23.35	23.00	22.79	22.35	22.20	22.03
2000	18.05	23.61	27.28	28.08	25.01	22.73	21.90	21.60	22.70	23.23	22.98	22.70	22.41	22.16	22.00
July 31 1400	16.75	22.96	26.47	27.63	25.05	22.82	22.00	21.66	22.72	23.26	23.00	22.70	22.42	22.17	22.00
2000	18.03	22.55	26.25	27.53	25.10	22.80	22.00	21.62	22.70	23.25	23.00	22.70	22.43	22.18	22.00
Aug. 1 1400	33.50	24.88	25.60	27.05	25.20	22.86	22.00	21.68	22.68	23.32	23.02	22.76	22.50	22.20	22.02
2000	35.86	26.40	25.60	26.90	25.18	22.86	22.00	21.67	22.70	23.26	23.00	22.73	22.47	22.19	22.00
Aug. 2 1400	20.40	27.80	26.60	26.68	25.18	22.94	22.02	21.70	22.70	23.25	23.00	22.73	22.45	22.19	22.00
2000	23.20	28.82	26.98	26.74	25.20	23.00	22.03	21.75	22.75	23.25	23.00	22.80	22.50	22.20	22.05
Aug. 3 1400	38.00	28.30	27.13	26.82	25.20	23.00	22.07	21.68	22.68	23.28	23.00	22.77	22.42	22.17	21.98
2000	43.60	29.70	27.18	26.82	25.17	22.98	22.10	21.73	22.72	23.30	23.00	22.76	22.42	22.17	22.00
Aug. 4 1400	43.43	33.47	28.20	27.98	25.10	23.00	22.12	21.75	22.62	23.22	23.00	22.77	22.40	22.14	22.00
2000	44.70	34.38	28.67	27.10	25.14	23.02	22.15	21.78	22.75	23.30	23.00	22.77	22.40	22.15	22.02
Aug. 5 1400	51.70	37.47	30.00	27.44	25.00	23.00	22.07	21.72	22.68	23.20	23.00	22.67	22.40	22.10	22.00
2000	49.10	38.60	30.55	28.70	25.09	23.10	22.19	21.80	22.72	23.25	23.00	22.73	22.40	22.20	22.00
Aug. 6 1400	41.43	38.24	32.05	28.39	25.00	23.06	22.16	21.76	22.68	23.22	23.00	22.72	22.42	22.15	22.00
2000	36.39	37.67	32.20	29.61	25.03	23.18	22.22	21.80	22.76	23.30	23.02	22.76	22.46	22.20	22.00
Aug. 7 1400	23.53	34.00	32.15	29.10	25.00	23.06	22.20	21.78	22.66	23.20	23.00	22.68	22.40	22.00	22.00
2000	29.73	32.80	32.02	29.21	25.03	23.10	22.21	21.80	22.73	23.25	23.00	22.78	22.43	22.13	21.99
Aug. 8 1500	26.52	31.90	31.18	29.27	25.02	23.10	22.21	21.79	22.70	23.22	22.99	22.70	22.42	22.13	21.99
2000	26.66	31.17	31.04	29.33	25.10	23.20	22.21	21.80	22.70	23.22	22.99	22.73	22.41	22.13	21.99
Aug. 9 1330	38.23	21.55	30.34	29.12	25.12	23.20	22.22	21.80	22.65	23.20	23.00	22.68	22.40	22.10	22.00
2000	40.48	33.00	30.35	29.10	25.17	23.20	22.24	21.80	22.63	23.20	22.98	22.68	22.39	22.08	21.99
Aug. 10 1500	40.20	37.50	31.13	29.02	25.21	23.22	22.30	21.78	22.70	23.23	23.00	22.73	22.40	22.05	22.00
2000	39.50	36.84	31.40	29.08	25.22	23.23	22.26	21.81	22.68	23.22	22.99	22.70	22.41	22.05	21.96
Aug. 11 1400	31.60	32.10	31.60	29.33	25.23	23.20	22.29	21.81	22.63	23.20	22.99	22.72	22.40	22.10	21.98
2000	22.62	31.12	31.35	29.44	25.28	23.24	22.37	21.86	22.70	23.21	23.00	22.73	22.41	22.13	22.00
Aug. 12 1300	23.62	29.82	30.30	29.38	25.37	23.25	22.37	21.87	22.72	23.22	23.00	22.70	22.40	22.08	22.00
2000	22.81	29.20	30.21	29.34	25.41	23.35	22.41	21.98	22.75	23.30	23.02	22.80	22.43	22.20	22.00
Aug. 13 1500	39.40	28.60	29.00	29.00	25.43	23.34	22.43	21.98	22.73	23.32	23.02	22.77	22.44	22.20	22.00
2000	35.10	29.26	29.20	28.93	25.43	23.40	22.46	21.96	22.76	23.34	23.02	22.79	22.44	22.16	22.00
Aug. 14 1430	36.30	30.85	29.24	28.63	25.49	23.37	22.42	21.98	22.70	23.30	23.02	22.78	22.40	22.10	21.98
Aug. 15 1600	45.00	31.42	29.42	28.54	25.45	23.22	22.42	21.95	22.65	23.20	23.00	22.62	22.39	22.08	21.95
Aug. 16 1500	33.95	32.13	30.00	28.61	25.43	23.28	22.44	21.88	22.57	23.20	22.87	22.60	22.37	22.00	22.00
Aug. 17 1500	39.20	31.62	29.38	28.55											
Aug. 18 [2]															
Aug. 19 1630	20.98	33.20	30.80	29.06	25.46	23.40	22.43	21.98	22.60	23.08	22.80	22.60	22.10	21.99	21.99
Aug. 20 1430	21.10	38.40	34.97	29.03	25.60	23.40	22.50	21.98	22.60	23.18	22.88	22.60	22.37	22.10	21.99
Aug. 21 1600	24.35	29.80	29.55	28.82	25.63	23.41	22.60	22.00	22.60	23.13	22.83	22.60	22.38	22.05	21.97
Aug. 22 1430	33.90	29.10	29.02	28.60	25.60	23.40	22.48	22.00	22.57	23.10	22.83	22.60	22.37	22.01	21.90
Aug. 23 1500	37.30	30.18	28.77	28.40	25.70	23.40	22.57	22.00	22.59	23.12	22.85	22.60	22.36	22.02	21.97
Aug. 24 1430	24.42	30.90	29.20	28.38	25.65	23.43	22.60	22.02	22.62	23.10	22.90	22.67	22.35	22.06	21.92
Aug. 25 1415	33.00	30.06	29.25	28.40	25.65	23.42	22.62	22.04	22.60	23.10	22.98	22.62	22.40	22.10	22.00
Aug. 26 1430	47.58	29.40	28.82	28.18	25.78	23.33	22.52	22.00	22.48	23.00	22.78	22.55	22.38	22.00	21.85
Aug. 27 1430	35.85	30.21	28.82	28.18	25.71	23.52	22.55	22.02	22.52	23.08	22.85	22.61	22.37	22.00	21.95
Aug. 28 1430	41.46	31.40	29.18	28.20	25.62	23.59	22.61	22.18	22.60	23.14	22.92	22.63	22.38	22.10	21.95
Aug. 29 1600	38.02	32.25	29.61	28.36	25.65	23.55	22.62	22.10	22.59	23.05	22.85	22.63	22.37	22.06	21.96
Aug. 30 1410	50.00	32.27	29.99	28.48	25.65	23.60	22.65	22.12	22.58	23.05	22.85	22.60	22.39	22.04	21.95
Aug. 31 1430		36.66	30.94	28.80	25.70	23.60	22.73	22.18	22.60	23.06	22.93	22.63	22.38	22.01	21.94
Sept. 1 1500	56.89	38.90	32.20	29.32	25.80	23.62	22.80	22.17	22.60	23.10	22.80	22.61	22.38	22.05	21.92
Sept. 2 1630	49.10	42.30	34.00	29.90	25.76	23.60	22.77	22.15	22.59	23.05	22.85	22.59	22.39	22.04	21.90
Sept. 3 1600	56.08	42.36	34.95	30.62	25.81	23.61	22.72	22.19	22.57	23.10	22.86	22.57	22.39	22.04	21.92
Sept. 4 1430	51.20	43.34	35.63	31.03	25.86	23.62	22.80	22.19	22.52	23.10	22.83	22.59	22.33	22.04	21.89

[1] Douglass search.
[2] Moved cruiser.

TABLE 30.—*Daily subsurface temperature readings, Little America III*—Continued

1940 GMT	Depth														
	S	0.25	0.50	1	2	3	4	5	10	15	20	25	30	36	41
Sept. 5 1500	51.05	42.80	36.25	31.80	26.02	23.77	22.82	22.25	22.57	23.10	22.85	22.61	22.40	22.05	21.90
Sept. 6 1430	55.80	43.46	36.61	32.30	26.10	23.68	22.82	22.25	22.58	23.10	22.80	22.62	22.40	22.07	21.94
Sept. 7 1430	47.77	43.80	37.04	32.54	26.20	23.75	22.86	22.28	22.59	23.09	22.84	22.59	22.40	22.05	21.96
Sept. 8 1700	55.00	42.80	37.16	33.10	26.35	23.75	22.92	22.25	22.58	23.08	22.82	22.58	22.38	22.03	21.95
Sept. 9 1445	49.40	43.40	37.27	33.34	26.56	23.87	22.90	22.30	22.58	23.06	22.85	22.60	22.38	22.04	21.95
Sept. 10 1430	37.57	42.08	37.52	33.68	26.70	23.98	22.95	22.33	22.58	23.10	22.86	22.60	22.39	22.04	21.95
Sept. 11 1530	50.38	41.20	37.10	33.90	26.86	23.99	23.00	22.39	22.58	23.10	22.86	22.61	22.39	22.10	21.95
Sept. 12 1000	37.08	41.07	37.15	33.65	27.01	24.02	23.00	22.30	22.59	23.08	22.80	22.60	22.38	22.08	21.99
Sept. 13 1400	32.70	39.22	36.94	34.10	27.24	24.10	23.05	22.40	22.61	23.13	22.90	22.63	22.40	22.10	21.99
Sept. 14 1315	28.93	39.62	37.98	35.25	27.35	24.05	23.07	22.42	22.61	23.11	22.90	22.63	22.41	22.10	21.98
Sept. 15 1330	47.25	36.90	35.60	33.77	27.46	24.00	23.09	22.42	22.61	23.10	22.90	22.60	22.40	22.10	21.98
Sept. 16 1630	50.20	37.30	35.16	33.50	27.61	24.20	23.10	22.42	22.59	23.05	22.88	22.61	22.40	22.10	21.98
Sept. 17 1410	43.80	37.83	35.20	33.40	27.80	24.24	23.13	22.52	22.57	23.07	22.90	22.60	22.40	22.10	21.98
Sept. 18 1715	53.00	38.36	35.37	33.40	27.80	24.29	23.20	22.52	22.48	23.04	22.85	22.56	22.39	22.01	21.98
Sept. 19 1530	47.20	40.67	35.83	33.39	27.90	24.36	23.20	22.50	22.53	23.05	22.85	22.57	22.40	22.00	21.98
Sept. 20 1400	46.40	41.50	36.40	33.67	27.98	24.40	23.22	22.47	22.56	22.97	22.80	22.50	22.40	22.08	21.97
Sept. 21 1500	47.00	40.54	36.60	33.99	28.05	24.52	23.23	----------	22.41	23.02	22.79	22.60	22.40	22.00	21.98
Sept. 22 1330	43.50	42.15	37.16	34.36	28.50	24.60	23.29	22.50	22.37	23.03	22.80	22.60	22.37	22.00	22.00
Sept. 23 1430	39.05	41.39	37.22	34.40	28.30	24.53	23.40	22.60	22.60	23.05	22.80	22.60	22.40	22.07	21.96
Sept. 24	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------
Sept. 25	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------
Sept. 26 1130	21.10	31.60	33.97	33.80	28.57	24.41	23.40	22.63	22.60	23.05	22.86	22.62	22.39	22.09	21.99
Sept. 27 1400	26.60	31.40	32.90	33.03	28.58	24.93	23.48	22.61	22.61	23.05	22.90	22.61	22.40	22.01	21.98
Sept. 28 1330	27.80	31.45	32.06	32.60	28.60	25.00	23.60	22.70	22.60	23.07	22.88	22.61	22.40	22.10	21.99
Sept. 29 1300	14.60	31.00	32.00	32.17	28.63	25.06	23.60	22.72	22.60	23.07	22.88	22.61	22.40	22.12	21.97
Sept. 30 1600	12.25	29.13	31.20	31.61	28.70	25.13	23.65	22.77	22.61	23.08	22.90	22.63	22.40	22.08	21.96
Oct. 1 1415	9.5	27.35	30.39	31.20	28.70	25.20	23.79	22.80	22.62	23.08	22.90	22.62	22.40	22.10	21.98
Oct. 2 1445	14.8	25.18	29.30	30.60	28.64	25.22	23.80	22.81	22.62	23.08	22.90	22.62	22.40	22.10	21.98
Oct. 3 1400	18.70	25.58	28.50	30.00	28.60	25.30	23.80	22.74	22.65	23.00	22.92	22.62	22.37	22.06	21.96
Oct. 4 1450	27.80	----------	28.40	29.45	28.47	25.24	23.85	22.80	22.60	23.08	22.85	22.60	----------	22.08	21.92
Oct. 5 1450	25.15	27.28	28.56	29.23	28.40	25.40	23.85	22.80	22.60	22.95	22.90	22.55	22.30	22.03	21.92
Oct. 6 1430	25.78	27.38	28.38	29.00	28.30	25.40	23.92	22.91	22.62	23.10	23.12	22.61	22.39	22.10	21.99
Oct. 7 1315	19.80	28.30	28.40	28.90	28.20	25.52	24.00	22.92	22.60	23.03	23.10	22.60	----------	22.03	21.88
Oct. 8 1415	30.41	27.00	28.21	28.80	28.20	25.42	24.12	23.03	22.80	23.10	23.00	22.80	22.40	22.20	21.98
Oct. 9 1415	31.60	28.60	28.10	28.54	27.93	25.32	24.10	23.18	22.50	23.10	23.04	22.59	22.32	22.00	21.90
Oct. 10 1450	30.23	30.40	28.60	28.54	28.00	25.54	24.12	23.00	22.60	23.02	22.90	22.63	22.23	22.00	21.90
Oct. 11 1430	23.20	30.60	29.13	28.64	27.82	25.50	24.12	23.00	22.60	23.10	23.12	22.61	22.10	22.14	22.00
Oct. 12 1320	18.13	28.50	29.20	28.92	27.71	25.50	24.20	23.00	22.60	23.00	23.03	22.58	22.30	22.10	21.90
Oct. 13 1500	31.00	28.50	28.65	28.76	27.65	25.60	24.20	23.12	22.63	22.98	22.80	22.62	22.39	22.04	21.92
Oct. 14	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------
Oct. 15	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------
Oct. 16	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------
Oct. 17	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------
Oct. 18	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------
Oct. 19	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------
Oct. 20	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------
Oct. 21	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------
Oct. 22 1315	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------
Oct. 23 1415	15.01	25.90	26.98	27.40	27.20	25.63	24.50	23.38	22.73	23.01	22.90	22.71	22.40	22.20	22.02
Oct. 24	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------
Oct. 25 1930	29.83	25.40	26.26	26.99	27.00	25.55	24.55	23.37	22.66	23.03	22.90	22.65	22.30	22.00	21.98
Oct. 26 2000	28.20	26.00	26.41	26.82	27.00	25.57	24.53	23.37	22.65	23.03	22.92	22.64	22.41	22.08	21.97

TABLE 30.—*Daily subsurface temperature readings, Little America III*—Continued

1940 GMT	Depth														
	S	0.25	0.50	1	2	3	4	5	10	15	20	25	30	36	41
Oct. 27 1545	17.58	26.52	26.50	26.78	26.98	25.60	24.50	23.41	22.70	23.01	22.82	22.60	22.20	22.02	21.98
Oct. 28 1830	23.60	25.80	26.33	26.78	26.80	25.10	24.58	23.40	22.78	23.08	22.90	22.63	22.33	22.10	22.00
Oct. 29															
Oct. 30															
Oct. 31															
Nov. 1 1500	17.22	24.05	25.45	26.34	26.52	25.50	24.60	23.59	22.69	23.03	22.91	22.65	22.22	22.16	21.98
Nov. 2 1730	18.80					25.58	24.60	23.59	22.73	23.00	22.96	22.70		22.10	21.98
Nov. 3 1745	17.50	20.41	22.98	25.28	26.21	25.46	24.60	23.51	22.78	23.00	22.93	22.63	22.20	22.10	21.98
Nov. 4 1400	13.18	21.60	22.80	25.20	26.20	25.41	24.60	23.68	22.75	23.08	23.00	22.63		22.14	21.98
Nov. 5 1700	15.78	21.90	23.10	25.01	26.00	25.40	24.61	23.80	22.78	23.00	22.90	22.68	22.40	22.08	22.00
Nov. 6 1520	12.90	20.90	23.00	24.98	25.90	25.38	24.58	23.70	22.78	23.10	22.90	22.68		22.10	21.98
Nov. 7 1530	10.21	20.19	22.50	24.90	25.90	25.40	24.66	23.70	22.71	23.00	22.90	22.60	22.10	22.10	21.98
Nov. 8 1530	7.81	18.80	22.00	24.78	25.78	25.38	24.68	23.72	22.80	23.08	23.00	22.71	22.40	22.18	22.01
Nov. 9 1900	9.00	16.80	20.88	24.50	25.61	25.38	24.68	23.78	22.76	23.03	22.98	22.70	22.20	22.18	21.98
Nov. 10 1500	6.80	15.30	19.90	24.20	25.28	25.30	24.61	23.80	22.80	23.01	22.98	22.60	22.41	22.18	21.93
Nov. 11 1600	3.90	14.58	18.66	23.80	25.34	25.20	24.58	23.70	22.68	23.00	22.90	22.68	22.36	22.01	21.98
Nov. 12 1500	3.70	14.00	18.00	23.41	25.28	25.40	24.80	23.88	22.81	23.10	22.98	22.71	22.43.	22.13	22.00
Nov. 13 1400	10.62	14.42	17.80	23.19	25.15	25.18	24.60	23.78	22.70	23.00	22.90	22.61	22.40	22.20	21.90
Nov. 14 2030	20.80	17.48	18.18	22.58	24.81		24.59	23.80	22.78	23.15	22.98	22.62		22.20	21.98
Nov. 15 1650	12.40	16.80	18.60	22.20	24.71	25.18	24.61	23.80	22.80	23.06	22.96	22.66	22.40	22.20	21.98
Nov. 16 1545	13.46	15.00	18.21	22.21	24.48	25.21	24.60	23.78	22.78	23.01	22.94	22.61		22.14	21.99
Nov. 17 1715	8.80	15.00	17.91	22.03	24.31	25.20	24.60	23.78	22.80	23.08	23.00	22.68		22.10	21.90
Nov. 18 1730	7.61	13.78	17.45	21.80	24.16	25.16	24.60	23.80	22.81	23.18	22.85	22.68	22.41	22.18	21.85
Nov. 19 1230	2.43	13.18	16.86	21.60	24.10	25.21	24.63	23.94	22.91	23.20	23.00	22.76	22.40	22.18	21.99
Nov. 20 1730	11.20	12.60	16.00	21.38	23.80	25.18	24.60	23.91	22.88	23.10	23.00	22.70		22.18	21.98
Nov. 21 2115	11.63	12.80	15.60	21.18	23.61	25.18	24.61	23.90	22.80	23.16	22.98	22.79	22.38	22.19	21.80
Nov. 22 1930	6.40	13.01	15.28	20.70	23.38	24.96	24.58	23.80	22.80	23.00	22.91	22.63	22.28	22.01	21.80
Nov. 23 2100	12.80	13.30	15.45	20.40	23.10	24 98	24.56	23.80	22.80	22.98	22.91	22.63	22.00	22.03	21.96
Nov. 24 1745	5.42	13.41	15.60	20.22	22.99	24.90	24.50	23.81	22.80	23.16	22.98	22.66	22.38	22.08	21.90
Nov. 25															
Nov. 26 1800	10.31	13.62	15.48	19.99	22.60	24.53	24.42	23.77	22.79	22.97	22.83	22.60	22.28		21.80
Nov. 27 1730	14.20	14.13	15.07	19.91	22.52	24.78	24.53	23.82	22.80	23.01	22.98	22.62	22.32	22.01	21.91
Nov. 28 1600	9.30	14.62	16.08	19.84	22.41	24.99	24.50	23.89	22.80	23.00	22.90	22.63	22.32	22.12	21.82
Nov. 29 1530	8.31	13.22	15.99	19.72	22.40	24.78	24.52	23.90	22.82	23.01	23.00	22.78	22.39	22.13	21.90
Nov. 30 1500	5.80	12.62	15.24	19.60	22.26	24.60	24.53	23.98	22.89	23.04	22.99	22.78	22.20	22.10	21.99
Dec. 1 1500	6.3	12.10	14.40	19.52	22.03	24.66	24.47	23.98	22.98	23.09	23.00	22.75	22.30	22.16	21.99
Dec. 2 1600	8.88	12.60	14.30	19.32	22.00	24.60	24.30	23.88	22.88	23.07	22.99	22.60	22.34	21.94	21.90
Dec. 3[3]															
Dec. 4 1700	5.60	11.98	14.58	18.99	21.62	23.95	24.40	23.90	22.83	23.01	22.92	22.66	22.30	22.02	21.86
Dec. 5 1800	4.08	8.98	13.53	18.80	21.62	24.46	24.41	23.98	22.98	23.04	23.00	22.79	22.10	22.02	
Dec. 6 2036	4.19	8.46	12.30	18.53	21.45	24.50	24.44	23.98	23.00	23.07	23.02	22.68	22.02	22.10	22.00
Dec. 7 2000		6.36	11.20	18.08	21.39	24.42	24.44	24.00	23.07	23.09	23.07	22.83	21.98	22.01	
Dec. 8 2036	0.44	6.68	10.65	17.56	21.21	24.41	24.43	24.05	23.07	23.22	23.20	22.98	22.42	21.90	21.99
Dec. 9 1630	0.19	7.28	10.67	17.42	21.00	24.37	24.39	24.00			23.60	23.18	22.46	22.00	22.00
Dec. 10 2100	9.40	9.42	11.19	16.99	20.55	24.18	24.22		22.95	23.03	23.00	22.60			21.81
Dec. 11 2000	10.28	9.99	11.80	16.68	20.40	24.14	24.19	23.98	22.97	23.03	23.00	22.80	22.24	21.81	21.81
Dec. 12 1936	6.48	9.07	12.18	16.79	20.25	24.18	24.20	23.99	23.00	23.04	23.04	22.91	22.19	22.00	22.01
Dec. 13 1715	1.00	8.19	12.16	16.58	20.00	24.00	24.07	23.91	22.93	23.02	23.00	22.86	20.68		
Dec. 14 1700	0.48	10.17	12.22	16.63	19.90	24.00	24.16	23.91	23.00	23.05	23.00	22.78			

[3] No readings.

TABLE 30.—*Daily subsurface temperature readings, Little America III*—Continued

1940 GMT	Depth														
	S	0.25	0.50	1	2	3	4	5	10	15	20	25	30	36	41
Dec. 15 1700	7.94	11.07	12.60	16.40	19.58	23.90	24.17	23.89	22.98	23.00	22.99	22.75	22.00	21.94	21.68
Dec. 16 1715	4.32	9.79	12.56	16.60	19.63	23.84	24.02	23.95	23.00	23.02	23.02	22.80	21.60	----	----
Dec. 17 1336	----	9.76	12.20	16.62	19.40	23.80	24.20	23.88	23.09	23.14	23.10	22.81	20.22	----	----
Dec. 18 1630	2.20	9.79	11.64	16.37	19.32	23.60	24.00	23.87	23.00	23.06	22.98	22.70	22.00	21.86	----
Dec. 19 1545	----	8.61	12.20	15.22	19.30	23.66	24.06	23.91	23.20	----	23.29	23.00	----	21.82	21.71
Dec. 20 1730	1.18	7.39	11.02	16.20	19.20	23.68	24.02	23.80	23.00	23.10	23.01	22.80	22.40	21.95	21.99
Dec. 21 1515	----	6.26	10.20	15.93	18.97	23.75	24.00	23.90	23.09	23.10	23.01	22.80	22.45	22.00	----
Dec. 22 1630	----	4.17	8.52	15.40	18.92	23.41	24.00	23.81	23.00	23.07	23.07	22.79	21.10	----	21.96
Dec. 23 1800	4.28	4.97	8.06	15.20	18.52	23.38	23.79	23.80	22.92	23.00	22.84	22.70	21.88	21.90	----
Dec. 24 1645	----	5.62	8.80	14.82	18.53	23.25	23.92	23.80	23.01	23.01	23.00	22.74	22.00	----	----
Dec. 25 1700	----	4.18	6.28	14.01	18.42	23.27	23.80	23.78	23.01	23.05	23.04	22.76	22.05	21.97	----
Dec. 26 [4]	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Dec. 27 1330	----	4.92	6.90	14.24	17.78	23.11	23.80	23.80	23.05	23.07	23.05	22.78	----	----	----
Dec. 28 1945	----	2.19	5.21	13.52	17.93	23.14	23.80	23.83	23.07	23.19	23.09	22.80	22.40	----	21.80
Dec. 29 1730	----	0.30	5.41	13.18	17.61	23.00	23.67	----	23.20	23.20	23.18	----	----	----	----
Dec. 30 1715	----	0.65	5.21	13.07	17.00	22.90	23.76	23.83	23.26	23.20	23.20	23.13	----	----	----
Dec. 31 1915	----	1.61	4.84	11.79	17.17	22.92	23.70	23.85	23.28	23.28	23.22	22.75	22.23	----	----
Jan. 1 1630	----	0.22	4.55	11.88	16.45	22.76	23.69	23.83	23.36	23.36	23.35	23.10	----	----	----
Jan. 2 2145	1.07	0.76	4.09	11.50	16.11	22.60	23.35	23.61	23.02	23.02	22.62	22.62	----	----	----
Jan. 3 2030	7.31	0.81	3.95	9.83	16.20	22.55	23.40	23.60	22.91	23.00	22.98	22.79	----	----	----
Jan. 4 2000	1.61	2.09	0.74	11.38	16.00	22.50	23.41	23.60	23.13	23.11	23.00	22.79	----	----	----
Jan. 5 1715	0.68	2.02	4.24	11.29	15.48	22.34	23.26	23.60	23.06	23.06	22.96	22.76	----	----	----
Jan. 6 2000	2.87	3.19	5.14	10.78	15.09	22.20	23.21	23.69	23.00	23.00	22.80	22.67	----	----	----
Jan. 7 1430	2.18	0.83	5.35	11.05	----	22.17	23.12	23.52	22.99	23.00	22.98	22.73	----	----	----
Jan. 8 1600	1.60	2.68	5.64	8.84	15.13	22.07	23.14	23.41	23.01	----	22.85	22.67	----	----	----
Jan. 9 1730	0.32	3.10	5.82	10.70	15.08	22.02	23.02	23.31	23.05	23.02	22.83	22.62	----	----	----
Jan. 16 1400	0.64	5.52	6.63	11.35	14.59	21.36	22.64	23.37	23.03	22.97	22.82	22.61	22.35	21.40	20.80
Jan. 17 1530	8.00	6.05	7.93	11.38	14.58	21.27	22.62	23.20	23.01	22.99	22.83	22.56	22.35	21.80	21.93
Jan. 18 1430	----	7.10	8.55	11.52	14.55	21.19	22.62	23.18	23.01	22.99	22.89	22.62	22.36	21.88	21.93
Jan. 19 [4]	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Jan. 20 1515	7.62	7.62	8.82	11.77	14.48	21.00	22.43	23.16	23.01	22.98	22.84	22.62	22.38	21.82	21.90

[4] No observations.

SUBSURFACE TEMPERATURE SUMMARIES

TABLE 31.—*Average subsurface temperatures, by 14-day periods, at standard depths*

[All temperatures in centigrade degrees below zero]

Depth (meters)	Period*																					
	24	25	26	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
AIR	14.1	21.5	27.3	33.9	35.3	33.9	33.9	25.4	36.2	31.7	34.7	34.1	51.1	40.9	24.8	22.8	21.9	12.5	12.3	9.1	3.5	7.2
SFC	18.4	22.1	27.6	33.9	35.3	34.9	34.4	34.6	33.7	31.3	34.8	33.7	53.8	41.3	19.6	23.5	19.5	9.2	8.7	3.5	+0.1	2.8
¼	-----	-----	-----	32.7	33.1	29.0	30.8	28.8	28.0	32.5	31.9	31.4	40.6	39.1	28.4	27.8	33.6	24.8	13.1	8.9	3.9	3.5
½	-----	-----	-----	25.7	29.0	25.9	27.9	27.7	26.1	30.7	29.6	29.8	34.7	36.2	29.7	28.0	24.8	18.8	28.4	11.9	7.5	5.6
1	12.6	15.4	18.0	20.1	23.8	24.5	26.1	26.4	25.2	28.9	28.3	28.5	31.2	33.9	30.4	28.1	26.1	23.0	19.9	17.2	14.2	9.5
2	15.7	15.7	18.4	18.5	20.0	21.4	22.3	23.2	23.4	24.4	25.2	25.6	26.1	27.8	28.4	27.5	26.5	24.7	23.2	20.4	18.1	15.2
3	17.7	17.7	19.1	18.8	19.2	20.2	20.9	21.6	22.1	22.4	23.2	23.4	23.7	24.3	25.2	25.6	25.4	25.3	24.8	24.1	23.3	21.3
4	-----	-----	-----	18.9	19.3	19.8	20.4	21.0	21.4	21.8	22.2	22.5	22.8	23.2	23.8	24.3	24.6	24.7	24.5	24.3	23.8	23.0
5	20.0	19.9	20.3	20.1	20.2	20.3	20.6	20.9	21.3	21.5	21.8	22.0	22.2	22.5	22.8	23.2	23.5	23.8	23.8	24.0	23.8	23.5
10	-----	23.5	23.3	23.2	23.1	23.0	22.9	22.8	22.8	22.7	22.7	22.6	22.6	22.6	22.6	22.6	22.7	22.8	22.8	23.0	23.1	23.0
15	-----	22.7	23.2	23.4	23.3	23.3	23.4	23.3	23.3	23.3	23.2	23.1	23.1	23.0	23.1	23.0	23.0	23.1	23.0	23.1	23.1	23.0
20	-----	22.6	22.8	22.9	22.9	23.0	23.0	23.0	23.0	23.0	23.0	22.9	22.8	22.8	22.9	23.0	22.9	23.0	23.0	23.1	23.1	22.9
25	-----	22.4	22.5	22.6	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.6	22.6	22.6	22.6	22.6	22.7	22.7	22.7	22.8	22.8	22.7
30	-----	-----	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.3	22.3	22.3	22.3	22.1	22.1	22.4
36	-----	-----	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.0	22.0	22.1	22.1	22.1	22.1	22.1	22.1	22.0	21.9	21.8
41	-----	-----	21.7	21.9	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	21.9	22.0	22.0	21.9	22.0	22.0	21.9	21.9	21.9	21.9

*Inclusive dates of each period:

Period No.:
- 24: 14 Mar. to 27 Mar.
- 25: 28 Mar. to 10 Apr.
- 26: 11 Apr. to 24 Apr.
- 1: 25 Apr. to 8 May
- 2: 9 May to 22 May
- 3: 23 May to 5 Jun.
- 4: 6 Jun. to 19 Jun.
- 5: 20 Jun. to 3 Jul.
- 6: 4 Jul. to 17 Jul.
- 7: 18 Jul. to 31 Jul.
- 8: 1 Aug. to 14 Aug.
- 9: 15 Aug. to 28 Aug.
- 10: 29 Aug. to 11 Sep.
- 11: 12 Sep. to 25 Sep.
- 12: 26 Sep. to 9 Oct.
- 13: 10 Oct. to 23 Oct.
- 14: 24 Oct. to 6 Nov.
- 15: 77 Nov. to 20 Nov.
- 16: 21 Nov. to 4 Dec.
- 17: 5 Dec. to 18 Dec.
- 18: 19 Dec. to 1 Jan.
- 19: 2 Jan. to 20 Jan.

No. 18. Bibliography of the climate of South America. Margaret M. Welch. 1921. 42 p.

No. 19. Thermal belts and fruit growing in North Carolina. Henry J. Cox. Appendix: Thermal belts from the horticultural viewpoint. W. N. Hutt. 1923. 106 p. 78 figs.

No. 20. An aerological survey of the United States. Part I. Results of observations by means of kites. W. R. Gregg. 1922. 78 p. 25 figs. (Out of print)

No. 21. The preparation and significance of free-air pressure maps for the central and eastern United States. C. LeRoy Meisinger. 1922. 77 p. 22 ch. 30 figs.

No. 22. The spring floods of 1922. H. C. Frenkenfield and others. 1923. 29 p. 15 ch. 5 figs. (Out of print)

No. 23. The temperature of Mexico. Jesus Hernandez, 1923. 22 p. 75 figs. (Out of print)

No. 24. West Indian hurricanes and other tropical cyclones of the North Atlantic Ocean. Charles L. Mitchell. 1924. 47 p. 103 figs. (Out of print)

No. 25. Normals of daily temperature for the United States. C. F. Marvin and P. C. Day. 1925. 87 p. 13 ch.

No. 26. An aerological survey of the United States. Part II. Results of observations by means of pilot balloons. W. R. Gregg. 1926. 60 p. 12 figs. (Out of print)

No. 27. Montezuma pyrheliometry. C. G. Abbot. 1926. 15 p.

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